# Case 3:10-cv-03561-WHA Document 2131-2 Filed 04/20/17 Page 1 of 153 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1	UNITED STATES DISTRICT COURT
2	NORTHERN DISTRICT OF CALIFORNIA
3	SAN FRANCISCO DIVISION
4	ORACLE AMERICA, INC.,
5	Plaintiff, ) Case No.
6	vs. ) CV 10-03561 WHA
7	GOOGLE, INC.,
8	Defendant. )
9	)
10	
11	HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY
12	VIDEOTAPED 30(b)(6) DEPOSITION OF GOOGLE, INC.
13	DESIGNEE: HIROSHI LOCKHEIMER
14	Palo Alto, California
15	Tuesday, December 8, 2015
16	
17	
18	
19	
20	
21	
22	Reported by:
23	KELLI COMBS, CSR No. 5908
24	Job No. 2189227
25	Pages 1 - 370
	Page 1

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3 SAN FRANCISCO DIVISION	3 HIROSHI LOCKHEIMER
4	4 EXAMINATION PAGE
	5 BY MS. HURST 7, 361
5 ORACLE AMERICA, INC.,	6 BY MR. RAMSEY 251
6 Plaintiff, )	7
7 ) Case No.	8
8 vs. ) CV 10-03561 WHA	9
9 GOOGLE, INC.,	10 QUESTIONS NOT ANSWERED
10 Defendant. )	11 PAGE LINE
11)	12 189 9
12	231 20
13	13 235 25
	239 19
	14 244 13
15 taken on behalf of Defendant, at 601 S. California	246 25
16 Street, Suite 100, Palo Alto, California, beginning at	15 251 7
17 9:50 a.m., on Tuesday, December 8, 2015, before Kelli	16
18 Combs, Certified Shorthand Reporter No. 7705.	17
19	18
20	19
21	20
22	21
23	22
	23
24	24 25
25 Page 2	Page 4
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1 APPEARANCES:	1 E X H I B I T S 2 EXHIBITS FOR IDENTIFICATION
2 For the Plaintiff:	3 NUMBER PAGE
3 ORRICK, HERRINGTON & SUTCLIFFE LLP	4 Exhibit 5014 Android Developers Terms 151
4 BY: ANNETTE L. HURST, ESQ.	and Conditions printed
5 BY: GABRIEL RAMSEY, ESQ.	5 December 5, 2015, from
6 GEOFFREY G. MOSS, ESQ. (LA office)	Internet Archive
7 ABIGAIL LUBOW, ESQ.	6
8 405 Howard Street	Exhibit 5015 Spreadsheet of five pages, 200
o 403 Howard Street	7 Bates stamped GOOG-00191479 8 Exhibit 5016 Slide presentation itled 361
9 San Francisco, California 94105-2669	"Android OC Quarterly
10 415.773.4585	9 Review - Q2 2010, July 12,
11 ahurst@orrick.com	2010," Bates stamped
12	10 GOOGLE-34-00089029 through
13 For the Defendant:	-89050
14 KEKER & VAN NEST LLP	11
15 BY: CHRISTA MARTIN ANDERSON, ESQ.	12 DECYLOLISI V MADKED EVHIBITS
16 633 Battery Street	13 PREVIOUSLY MARKED EXHIBITS 14 EXHIBIT PAGE
17 San Francisco, California 94111	15 5003 7
18 415.391.5400	16
19 canderson@kvn.com	17
	18
20	19
21 ALSO PRESENT:	20
22 Renny Hwang, In-house Counsel for Google	21 22
23 Ramon Peraza, Video Operator	23
24	24
25	25
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1 Palo Alto, California; Tuesday, December 8, 2015	1 Q All right.
2 9:50 a.m.	2 And have you seen this deposition notice
3 PROCEEDINGS	3 before?
4	4 A I'm not entirely sure. I'm not sure.
5 THE VIDEOGRAPHER: Good morning. We are	5 Q Okay.
6 on the record at 9:50 a.m. on December 8th, 2015.	6 Could you turn to page 7. There's a
7 This is the videotaped deposition of Google, Inc.	7 paragraph numbered 2, and it says:
8 The deponent is Mr. Hiroshi Lockheimer. My name is	8 "A comprehensive description
9 Ramon Peraza, here with our court reporter, Kelli	9 of all plans, product roadmaps,
10 Combs. We're here from Veritext Legal Solutions at	strategies, functions, markets,
11 the request of counsel for the Plaintiff.	devices and goods or services now
This deposition is being held at	or in the future plan to be in any
13 King & Spalding in Palo Alto. The caption of this	way associated with Android and/or
14 case is Oracle America, Inc. versus Google, Inc.,	any part thereof."
15 Case Number CV 10-3561 WHA.	Do you see that?
Please note that audio and video recording	16 A I do see that.
17 will take place unless all parties have agreed to go	17 Q And you understand that you're here today
18 off the record. Microphones are sensitive and may	18 to testify on behalf of Google, correct?
19 pick up whispers or private conversations.	19 A Yes.
20 At this time, Counsel, please identify	20 Q And you understand you're here to testify
21 yourselves for the record and state whom you	21 on behalf of Google with respect to that Topic 2
22 represent.	22 that I just read to you?
23 MS. HURST: Annette Hurst from Orrick,	23 A I do understand that.
24 Herrington & Sutcliffe for Oracle.	24 Q And do you consent to testify on behalf of
25 MR. RAMSEY: Gabriel Ramsey with Orrick,	25 Google with respect to that topic?
Page 6	Page 8
1 also for Oracle.	1 A Yes, I do.
2 MR. MOSS: Jeffrey Moss on behalf of	2 Q And you have a title
3 Oracle.	3 Are you presently employed by Google?
4 MS. LUBOW: Abigail Lubow on behalf of	4 A I am.
5 Oracle.	5 Q And do you have a title at Google?
6 MS. ANDERSON: Christa Anderson,	6 A I do.
7 Keker & Van Nest on behalf of Google. With me here	7 Q And what is that?
8 is the witness, Mr. Lockheimer, and Renny Hwang of	8 A Senior Vice President.
9 Google, in-house counsel.	9 Q And how long have you held that title?
10 THE VIDEOGRAPHER: The court reporter may	10 A About two months now.
11 now swear in the witness.	11 Q And how long have you been with Google?
12 HIROSHI LOCKHEIMER,	12 A I've been with Google about nine and a
13 after having been duly sworn, testified as follows:	13 half, almost 10 years.
14o0o	14 Q And as Senior Vice President, what are
15	15 your duties and responsibilities?
16 EXAMINATION	16 A I look over Android, Chrome OS and
17 BY MS. HURST:	17 Chromecast.
18 Q Good morning, Mr. Lockheimer. I'm handing	MS. ANDERSON: Last time, Counsel, just to
19 you what's been previously marked as Exhibit 5003,	19 avoid me having to interject statements about
20 the Notice of Deposition of Google, Inc.	20 confidentiality throughout the testimony, we'll
21 And I'll ask you to turn to page 8 of that	21 designate the transcript today highest level
22 document sorry. Not 8. 6.	22 attorneys' eyes only, and then, of course, go back
Do you see there a heading, "Deposition	23 pursuant to the protective order after we get the
24 Topics"?	24 transcript.
25 A I do.	25 THE VIDEOGRAPHER: Counsel, if you could
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	Tage >

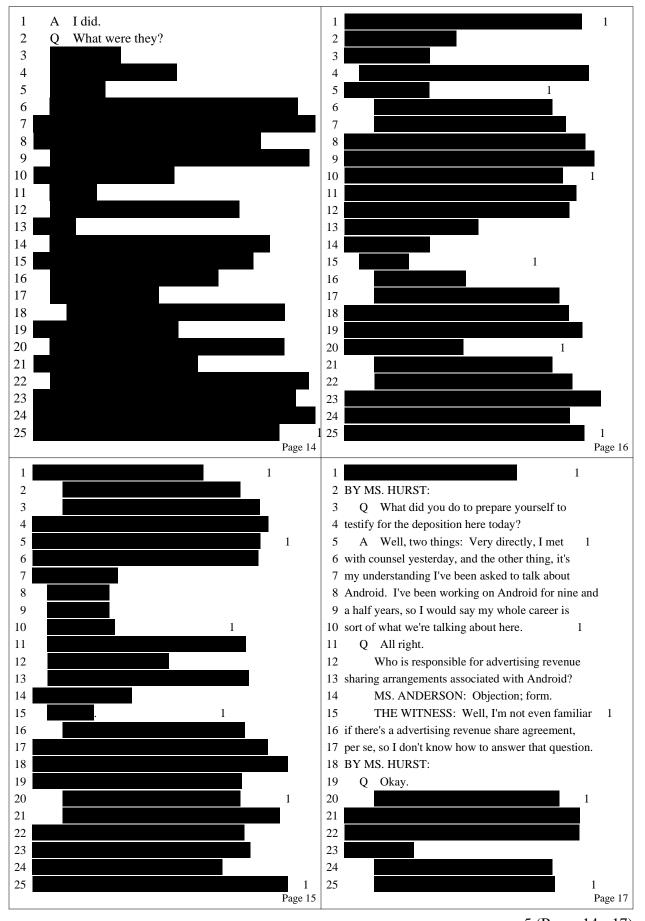
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INGIET CONTIDENTIAL	THIOMIETS ETES ONET
<ul> <li>1 bring the microphone a little higher.</li> <li>2 MS. ANDERSON: Sure. Where would you like</li> <li>3 it?</li> </ul>	1 team. So depends, I guess, on how you define any 2 responsibility, but, you know, I've been on the 3 Android team since nine and a half, 10 years ago.
4 THE VIDEOGRAPHER: Below the hairline.	4 Q All right.
5 MS. HURST: All right. Ms. Anderson, can	5 And approximately what month and year did
6 we stipulate that the witness is being designated on	6 you start at Google?
	7 A It was April 2006.
7 Topics 2, 3, 7 and 8?	_
8 MS. ANDERSON: That's correct. Just with	8 Q And was that after Google had acquired
9 one clarification. That as to I think this is	9 Android?
10 the e-mails you have these are all obviously	10 A It was.
11 subject to Google's objections that we served.	11 Q And had you worked in Android prior to the
Topic 3, Mr. Lockheimer's testimony	12 acquisition?
13 concerns Google Play Services relating to the	13 A No.
14 nature, purpose and operation of Google Play	14 Q Had you ever worked with Mr. Rubin before?
15 Services. Other witnesses are handling other	15 A I have.
16 portions.	16 Q In what occasions had you worked with
17 And as to Topic 7, Mr. Lockheimer is	17 Mr. Rubin prior to joining Google?
18 discussing the Google procedures related to	18 A Prior to joining Google, I worked for
19 compliance with applicable law as opposed to the	19 Andy and his company, Danger Research.
20 other portions of this topic.	20 Q And what was the business of Danger
21 And then finally on Topic 8 and we've	21 Research?
22 had correspondence on this intellectual property,	22 A They were a startup. At the time I was
23 the parties have agreed they're talking about	23 there, they were working on various products. It
24 copyright as opposed to any form of intellectual	24 was very early on in the in the life of the
	25 startup.
25 property.	Page 12
Page 10	1 age 12
1 MS. HURST: No, we have not agreed to	1 Q Can you be more specific?
1 MS. HURST: No, we have not agreed to	1 Q Can you be more specific?
1 MS. HURST: No, we have not agreed to 2 that.	1 Q Can you be more specific? 2 A They at the time I was there, they
1 MS. HURST: No, we have not agreed to 2 that. 3 MS. ANDERSON: Well, that is our position.	1 Q Can you be more specific? 2 A They at the time I was there, they 3 worked on they were prototyping a little device
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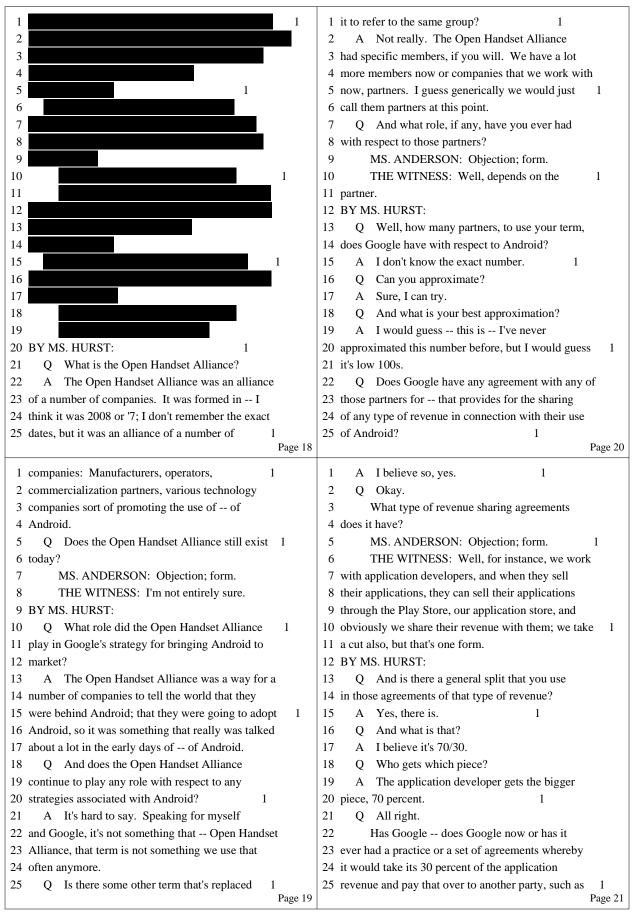
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# Case 3:10-cv-03561-WHA Document 2131-2 Filed 04/20/17 Page 7 of 153 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1 a carrier?	1 BY MS. HURST: 1
2 MS. ANDERSON: Objection; form.	2 Q Does it have revenue in it?
3 THE WITNESS: I'm not entirely sure. I	3 A Unfortunately not. Android is an open
4 believe so, but I'm not entirely sure.	4 source operating system that we give away for free,
5 BY MS. HURST: 1	5 so more of a cost center than a profit center. 1
6 Q What's your understanding of that, then?	6 Q So I just want to make sure. There's a
7 A My very vague understanding is that in	7 P&L for Android, right?
8 some instances, some of that portion that goes to	8 A Yes.
9 Google is shared with certain partners.	9 Q Have you ever seen that P&L?
10 Q Okay. Which partners?	10 A Yes, I have seen forms of it, yes. 1
11 A I don't know.	11 Q And you're telling me there's no revenue
12 Q If you wanted to know the details of those	12 on that P&L?
13 arrangements, that is, who are we currently sharing	13 A For Android, we don't charge for Android,
14 application revenue with, who would how would you	14 so there is no revenue there.
15 find out that information?	15 Q Okay. 1
16 A I would probably talk to some people at	16 I just want to make sure we're talking
17 Google.	17 about the P&L. I understand you think you don't
18 Q Which people?	18 charge for Android, so I'm asking about revenue
19 A The first person I would I would go to	19 lines on the Android P&L.
20 is probably John Gold.	20 You've seen that document, right? 1
21 O And who is Mr. Gold?	_
	3
22 A John is responsible for finance. He	
23 works in the finance organization at Google.	23 have been represented to me as as P&Ls. They are
Q Do you have any role in dealing with the	24 for Android. What I know is that we give Android
25 carriers? 1 Page 22	25 away for free. We don't charge for Android. That's 1 Page 24
1 age 22	1 agc 24
1 A Well, "dealing with" is a is a pretty 1	1 the extent of my knowledge. 1
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1 So you don't sit down with them and go 1	1 contribution that financial contribution that 1
2 over the P&L and make have any role at all in	2 Android was making to Google's business?
3 making sure it's accurate?	3 MS. ANDERSON: Objection; form.
4 A I didn't say I don't sit down with them.	4 THE WITNESS: Not that I recall, no.
5 I do sit down with them and talk about a number of 1	5 BY MS. HURST: 1
6 topics. They have shown me the Android P&L from	6 Q Why did Mr. Rubin leave the Android
7 time to time. Honestly, that is something that the	7 business?
8 Finance Department spends their time on and they	8 MS. ANDERSON: Objection; form and beyond
9 update me on on what the P&L looks like, but I	9 the scope.
10 trust that they're doing their job to keep it 1	THE WITNESS: Yeah, I think that was a 1
11 accurate.	11 personal decision. You should you should ask
12 Q Who do you report to?	12 him.
13 A I report to Sundar Pichai.	13 BY MS. HURST:
14 Q And what's his title?	14 Q Was he fired?
15 A He is the CEO.	15 MS. ANDERSON: Objection; form, beyond the 1
16 Q Of Google?	16 scope.
17 A Yes.	17 THE WITNESS: I don't know.
18 Q Do you ever have to account to him for the	18 BY MS. HURST:
19 performance of your business?	
	19 Q What have you heard about that? 20 MS, ANDERSON: Objection; form, beyond the 1
	3 / / /
21 that, you know, how our partnership is going, what	21 scope.
22 is the latest release of Android, you know, how is	I also caution the witness to the extent
23 the technology progressing, things like that, yes.	23 that you're being asked to discuss matters that may
Q Any of that ever involve any financial	24 be subject to privacy issues, you should raise that.
25 discussion of any kind? 1 Page 26	25 I'm not aware of that, but it is beyond the scope by 1 Page 28
1 A Well, with regard to Android, it's pretty 1	1 far. 1
2 well-known within Google and outside that it's an	THE WITNESS: Sorry, your question was?
3 open source operating system that we give away for	3 BY MS, HURST:
4 free, so we don't really discuss, you know, the	
5 fact that it's free that often.	
	_
6 Q Have you ever heard Mr. Rubin say that	6 Android and any reasons for that?
7 Android is profitable?	7 MG ANDEDGON G 1: 4: G
1	7 MS. ANDERSON: Same objection. Same
8 A Not that I'm aware of.	8 instructions.
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1 operating system and a great ecosystem that goes 1	1 MS. ANDERSON: Objection; form, beyond the 1
2 along with it and making it available to as many	2 scope.
3 people in the world as possible. That's my	3 THE WITNESS: I am.
4 strategy.	4 BY MS. HURST:
5 BY MS. HURST: 1	5 Q You expect and hope to make money 1
6 Q So can you answer the question "yes" or	6 associated with that investment, true?
7 "no"? Is it your strategy to lose money?	7 MS. ANDERSON: Beyond the scope.
8 A As I mentioned, my strategy is to build a	8 THE WITNESS: I joined Google to build
9 great operating system that's deployed widely	9 great products, so that's the thing that I think
10 throughout the world, and that's what I spend all 1	10 about the most. I really don't think about or hope 1
11 my time thinking about is how to build great	11 and expect, as you put it, about my shares, one way
12 products, work with our partners to commercialize	12 or another. I'm there to build a great operating
13 them and delight customers.	13 system.
14 Q Are you able to answer the question "yes"	14 BY MS. HURST:
15 or "no"? Is it your strategy to lose money?	15 Q How many shares of Google stock do you 1
16 A It's just money in the context of a	16 own?
17 free operating system, money is just not something	17 MS. ANDERSON: Beyond the scope.
18 that is even something that we're thinking about.	18 THE WITNESS: I actually don't know.
19 It's a free operating system. We give it away for	19 BY MS. HURST:
20 free; it's open source. So I'm having a tough time 1	20 Q Can you approximate?
21 saying "yes" or "no" to that because it's just	21 MS. ANDERSON: Beyond the scope.
22 the concept of money is not something we think	22 THE WITNESS: No. I would prefer not to.
23 about in the context of Android.	23 I would be guessing.
	24 BY MS. HURST:
<ul><li>Q Google is a public company, right?</li><li>A Yes.</li></ul>	
25 A Yes. 1 Page 30	25 Q Can you approximate the value of the Page 32
1.050	1.450.02
1 Q It has shareholders? 1	1 shares of Google stock that you presently own? 1
2 A Yes.	2 MS. ANDERSON: Beyond the scope.
3 Q They expect certain financial performance	3 THE WITNESS: That I presently own,
4 of Google, true?	4 probably about a million dollars. That's an
5 MS. ANDERSON: Objection; form, beyond the 1	5 approximation. 1
6 scope.	6 BY MS. HURST:
7 THE WITNESS: I'm sure every shareholder	7 Q Have you owned other Google stock in the
8 has their own set of expectations. I can't speak	8 past that you've since sold?
9 for all of them.	9 MS. ANDERSON: Beyond the scope.
10 BY MS. HURST:	10 THE WITNESS: I have.
11 Q Certainly it's a company that Wall Street	11 BY MS. HURST:
12 follows, true?	12 Q And what's the approximate amount of
13 MS. ANDERSON: Objection; form, beyond the	13 revenue that you've or capital gain that you have
14 scope.	14 received through the sale of those shares?
15 THE WITNESS: It's a public company. 1	15 MS. ANDERSON: Beyond the scope. 1
• • •	
16 BY MS HURST	
16 BY MS. HURST:	16 THE WITNESS: I don't know.
17 Q You don't know whether there are analysts	16 THE WITNESS: I don't know. 17 BY MS. HURST:
<ul><li>17 Q You don't know whether there are analysts</li><li>18 on Wall Street who follow the performance of Google?</li></ul>	16 THE WITNESS: I don't know. 17 BY MS. HURST: 18 Q Can you approximate?
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17 Q You don't know whether there are analysts 18 on Wall Street who follow the performance of Google? 19 MS. ANDERSON: Objection; form, beyond the 20 scope. 1 21 THE WITNESS: Google's dealings with	16 THE WITNESS: I don't know. 17 BY MS. HURST: 18 Q Can you approximate? 19 MS. ANDERSON: Beyond the scope. 20 THE WITNESS: A few million dollars. 1 21 BY MS. HURST:
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1 I have never done that math. 1	1 that you just can't even accept it for purposes of 1
2 BY MS. HURST:	2 answering whether you agree or disagree with it?
3 Q And you're aware, both in connection with	3 MS. ANDERSON: Objection; form.
4 having sold Google shares and currently being a	4 Which question do you want him to answer?
5 Google shareholder, that Google is a profitable 1	5 There's two questions.
6 company, true?	6 MS. HURST: It's all one question.
7 MS. ANDERSON: Beyond the scope.	7 MS. ANDERSON: Okay. Can we have that
8 THE WITNESS: I believe so, yeah.	8 read back, please.
9 BY MS. HURST:	9 (Record read as follows:
10 Q And Google has strategies for earning 1	10 "Q Are you unable to accept 1
11 profit, true?	the truth of that assumption for
MS. ANDERSON: Beyond the scope.	12 purpose of answering the
13 THE WITNESS: I would assume so, yes.	question? Is that so far out of
14 BY MS. HURST:	the realm of possibility that
15 Q And one of its strategies for earning 1	Mr. Schmidt made a statement 1
16 profit involves Android; is that right?	16 that you just can't accept it
17 MS. ANDERSON: Objection; form.	for purposes of answering
18 THE WITNESS: Not no, I don't think so.	18 whether you agree or disagree
19 I mean, we give away Android for free, so I don't	19 with it?")
20 know how we would make a profit from giving 1	20 MS. ANDERSON: Objection; form.
21 something away for free.	21 THE WITNESS: If your question is whether
22 BY MS. HURST:	22 Eric Schmidt made that statement or not, I have no
23 Q So when Eric Schmidt declared, "Don't	23 idea.
24 worry, Android is profitable," he just he was not	24 BY MS. HURST:
25 telling the truth when he was making a statement to 1	25 Q I'm asking you to assume he did; that 1
Page 34	Page 36
1 the markets about Google, a public company? 1	1 Mr. Schmidt made a statement to the effect of 1
2 MS. ANDERSON: Objection; form.	2 "Don't" public statement, "Don't worry, Android's
3 THE WITNESS: I actually don't know that	3 profitable. Of course, we're making money on
4 he's made that statement. I have never heard him	4 Android."
5 make that statement personally.	5 Now, tell me, do you agree or disagree 1
6 BY MS. HURST:	6 with that?
7 Q And when Andy Rubin said, "Don't worry,	7 MS. ANDERSON: Objection; form.
8 Android's profitable," was he not telling the truth?	8 THE WITNESS: I guess it depends on on
9 MS. ANDERSON: Objection; form.	9 the broader context of of what the statement
THE WITNESS: I'm not sure if Andy made 1	10 involved, you know, what what the other parts of 1
11 that statement. I've never heard him say that.	11 the statement, whatever they were; if I'm supposed
12 BY MS. HURST:	12 to assume that he made the statement, I guess it
13 Q Well, let me just ask you: I want you to	13 depends on what else he was saying or what he was
14 assume Mr. Schmidt assured the market that Android	14 talking about.
15 would be profitable. 1	15 But when when talking about Android 1
16 Do you disagree with that?	16 specifically from my perspective, what I know is
17 MS. ANDERSON: Objection; form. It's also	17 that Android, the operating system, AOSP, as we call
18 beyond the scope.	18 it, is a free operating system that we don't charge
19 THE WITNESS: Again, I don't know that	19 for.
20 Eric or anyone has made that type of statement.	20 BY MS. HURST: 1
21 BY MS. HURST:	21 Q Android is also an ecosystem, right?
22 Q Are you unable to accept the truth of that	22 MS. ANDERSON: Objection; form.
23 assumption for purpose of answering the question?	23 THE WITNESS: The way I think about it is
24 Is that so far out of the realm of possibility that	
25 Mr. Schmidt might have made such a statement for you 1	24 Android is an operating system. There is an 25 ecosystem associated with it, but Android is an 1
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	10.75

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1 operating system. 1	1 THE WITNESS: Well, there is no one way to 1
2 BY MS. HURST:	2 do anything on Android. It's kind of the way
3 Q You've used the term "ecosystem" and the	3 Android is built. It's customizable, so it really
4 need to keep a healthy ecosystem several times	4 depends on specific devices.
5 today.	5 BY MS. HURST: 1
6 What do you mean by that?	6 Q Okay.
7 A Well, there are a number of different	7 So then let's go with, you know, some
8 the context matters, I guess. In our previous	8 Samsung, you know, device that smartphone device
9 conversation here, I believe we were talking about	9 that uses Android. What's the current version of a
10 the application ecosystem and Google Play, 1	10 Samsung device using Android?
11 specifically.	11 MS. ANDERSON: Objection; form, beyond the
12 Q Well, there are others in the Android	12 scope.
13 ecosystem, right, not just application developers?	13 THE WITNESS: Yeah, it's hard to answer
14 A Well, you were asking that I mentioned	14 that. Samsung has many, many different devices out
	15 in the market today, so I couldn't give you one 1 16 answer to that.
16 that's that's the context that I was mentioning	
17 it in.	17 BY MS. HURST:
18 Q All right.	18 Q Do you have an Android phone with you here
Well, who are all the types of business	19 today that is your personal phone?
20 partners that are in the Android ecosystem?	20 A I do have an Android phone in this 1
21 A Sure. There are a number of different	21 building, yes.
22 kinds of partners: Operators, for instance,	22 Q Okay.
23 application developers, which we talked about,	And what kind of phone is it?
24 hardware manufacturers or OEMs. There are also	24 A It's an Android phone.
25 commercialization partners, technology providers, 1	25 Q Right. But manufactured by who? 1
Page 38	Page 40
1 and I'm sure there are others that I'm forgetting 1	1 A The one that I'm using right now is 1
2 about at the moment, but those are the ones that	2 manufactured by Huawei.
3 come to mind.	3 Q And what's it called?
4 Q And when you say "operators," you mean	4 A It's the Nexus 6P.
5 wireless carriers?	5 Q So that's the one that Google sells, 1
6 A Correct.	6 right?
7 Q Who amongst that ecosystem decides what	7 MS. ANDERSON: Objection; form, beyond the
8 search provider will be used for Phone-top Search?	8 scope.
9 MS. ANDERSON: Objection; form.	9 THE WITNESS: It's one of the phones
THE WITNESS: What is Phone-top Search? 1	10 that we have a store called the Google Store 1
11 BY MS. HURST:	
	11 where we sell phones from. That's one of the phones
12 Q So, you know, when you have a smartphone	<ul><li>11 where we sell phones from. That's one of the phones</li><li>12 that's sold there, yes.</li></ul>
12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a	<ul><li>11 where we sell phones from. That's one of the phones</li><li>12 that's sold there, yes.</li><li>13 BY MS. HURST:</li></ul>
12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a 14 search, are you familiar with that?	<ul> <li>11 where we sell phones from. That's one of the phones</li> <li>12 that's sold there, yes.</li> <li>13 BY MS. HURST:</li> <li>14 Q Okay.</li> </ul>
12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a 14 search, are you familiar with that? 15 MS. ANDERSON: Objection; form.	<ul> <li>11 where we sell phones from. That's one of the phones</li> <li>12 that's sold there, yes.</li> <li>13 BY MS. HURST:</li> <li>14 Q Okay.</li> <li>15 So if you're not in any application and 1</li> </ul>
12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a 14 search, are you familiar with that? 15 MS. ANDERSON: Objection; form. 1 16 BY MS. HURST:	11 where we sell phones from. That's one of the phones 12 that's sold there, yes. 13 BY MS. HURST: 14 Q Okay. 15 So if you're not in any application and 1 16 you want to engage in a Web search using a phone,
12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a 14 search, are you familiar with that? 15 MS. ANDERSON: Objection; form. 1 16 BY MS. HURST: 17 Q You're not in any application.	11 where we sell phones from. That's one of the phones 12 that's sold there, yes. 13 BY MS. HURST: 14 Q Okay. 15 So if you're not in any application and 1 16 you want to engage in a Web search using a phone, 17 what's the mechanism for doing so?
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12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a 14 search, are you familiar with that? 15 MS. ANDERSON: Objection; form. 1 16 BY MS. HURST: 17 Q You're not in any application. 18 A Swiping down, no, I'm not familiar. 19 Q Well, I'm you know, shame on me, I'm an 20 iOS user. Maybe there's a different way of doing it 1 21 in Android. 22 You're not in any application, you want to	11 where we sell phones from. That's one of the phones 12 that's sold there, yes. 13 BY MS. HURST: 14 Q Okay. 15 So if you're not in any application and 1 16 you want to engage in a Web search using a phone, 17 what's the mechanism for doing so? 18 A I'm sorry, can you repeat that question. 19 Q Yeah. 20 If you don't have any application open, 1 21 you're just on the main screen of your phone and you 22 want to engage in a Web search, what's the most
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12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a 14 search, are you familiar with that? 15 MS. ANDERSON: Objection; form. 1 16 BY MS. HURST: 17 Q You're not in any application. 18 A Swiping down, no, I'm not familiar. 19 Q Well, I'm you know, shame on me, I'm an 20 iOS user. Maybe there's a different way of doing it 1 21 in Android. 22 You're not in any application, you want to 23 make a search. How do you do that in the Android 24 in an Android device?	11 where we sell phones from. That's one of the phones 12 that's sold there, yes. 13 BY MS. HURST: 14 Q Okay. 15 So if you're not in any application and 1 16 you want to engage in a Web search using a phone, 17 what's the mechanism for doing so? 18 A I'm sorry, can you repeat that question. 19 Q Yeah. 20 If you don't have any application open, 1 21 you're just on the main screen of your phone and you 22 want to engage in a Web search, what's the most 23 efficient, simplest and easiest way of going about 24 doing that?
12 Q So, you know, when you have a smartphone 13 and you swipe down on the main screen to make a 14 search, are you familiar with that? 15 MS. ANDERSON: Objection; form. 1 16 BY MS. HURST: 17 Q You're not in any application. 18 A Swiping down, no, I'm not familiar. 19 Q Well, I'm you know, shame on me, I'm an 20 iOS user. Maybe there's a different way of doing it 1 21 in Android. 22 You're not in any application, you want to 23 make a search. How do you do that in the Android	11 where we sell phones from. That's one of the phones 12 that's sold there, yes. 13 BY MS. HURST: 14 Q Okay. 15 So if you're not in any application and 1 16 you want to engage in a Web search using a phone, 17 what's the mechanism for doing so? 18 A I'm sorry, can you repeat that question. 19 Q Yeah. 20 If you don't have any application open, 1 21 you're just on the main screen of your phone and you 22 want to engage in a Web search, what's the most 23 efficient, simplest and easiest way of going about

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1 scope. 1	1 the scope.
2 THE WITNESS: Depends on how you want to	2 THE WITNESS: Who decides whether there'll
3 do it. There's multiple ways of doing it.	3 be a default search provider?
4 BY MS. HURST:	4 BY MS. HURST:
5 Q Using your hand as opposed to your voice 1	5 Q Yes. 1
6 and making gestures with the phone, in order to	6 A I'm not sure.
7 with the fewest number of steps, acquire a search	7 Q Is it your strategy for Android to have
8 bar that will allow you to enter data to cause there	8 Google be the default search provider?
9 to be a search, what is the mechanism that you most	9 MS. ANDERSON: Objection; form.
10 often use with your Nexus phone in order to 1	10 THE WITNESS: For Android as a whole, I 1
11 accomplish that?	11 wouldn't say that's my strategy, no.
MS. ANDERSON: Objection; form, beyond the	12 BY MS. HURST:
13 scope.	13 Q Well, whether you would personally say
14 THE WITNESS: The way I do searches from	14 it's your strategy, I'm asking about Google's
15 the home screen if I'm not using my voice, is to tap 1	15 strategy.
16 on the widget.	16 MS. ANDERSON: Objection; form.
17 BY MS. HURST:	17 BY MS. HURST:
18 Q So you call it the home screen?	18 Q Is it Google's strategy for Android to
MS. ANDERSON: Objection; form.	19 have Google be the default search provider?
20 THE WITNESS: I believe the screen that 1	20 MS. ANDERSON: Objection; form. 1
21 we're talking about, since you mentioned you're an	21 THE WITNESS: I don't think I would use
22 iOS user, I'm trying to translate your terminology	22 the word "strategy," no.
23 into mine, but what I mean by "home screen" is the	23 BY MS. HURST:
24 screen that appears when you press the "Home"	24 Q Well, what word would you use?
25 button. 1	25 A I think Google's hope is that these 1
Page 42	Page 44
1 BY MS. HURST: 1	1 manufacturers or operators or whoever it is that's 1
2 Q Or when you turn the phone on for the	2 responsible for bringing these devices to market
3 first time?	3 would choose Google, but ultimately it's their
4 MS. ANDERSON: Objection; form, beyond the	4 choice.
5 scope. 1	5 Q It's certainly your goal that they choose 1
6 THE WITNESS: Correct. The home screen	6 Google as a default search provider, isn't it?
7 does appear when you first turn on the phone.	7 MS. ANDERSON: Objection; beyond the
8 BY MS. HURST:	8 scope.
9 Q Without opening any application, is there	9 THE WITNESS: I don't think so, no. From
10 a means of accessing search capability from the home 1	10 the Android perspective, we are building an 1
11 screen?	11 operating system that's open source that isn't tied
MS. ANDERSON: Beyond the scope.	12 to any specific company in any way.
THE WITNESS: Well, search is implemented	13 BY MS. HURST:
14 as an application, so no, there is no way to do a	14 Q So it's not
15 search without applications.	15 I just want to be clear; it is not your 1
MS. ANDERSON: I neglected to mention at	16 goal that Google be the default search provider in
17 the beginning that I want to put on the record for	17 connection with the Android platform?
18 all these depos today of the different topics, the	MS. ANDERSON: Objection; form, beyond the
19 witness does reserve the right to read and sign for	19 scope.
20 30 days. I just want to make sure that's on the	THE WITNESS: The goal of the Android team 1
21 record for each topic today.	21 is to build an operating system that our partners
22 BY MS. HURST:	22 are happy to adopt and deploy and customize and
23 Q Who amongst the Android ecosystem decides	23 build their own products on top of, that also
24 whether there will be a default search provider?	24 delight customers. That's our goal.
25 MS. ANDERSON: Objection; form and beyond 1	25
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1 BY MS. HURST: 1	1 right? 1
2 Q Okay.	2 MS. ANDERSON: Same objection.
3 I'm asking about having Google as the	3 THE WITNESS: I believe that's how the
4 default search provider in connection with the	4 company makes some of its money, yes.
5 Android platform. "Yes" or "no," is that one of 1	5 BY MS. HURST: 1
6 your goals?	6 Q Makes a lot of its money, isn't it?
7 MS. ANDERSON: Objection; form.	7 MS. ANDERSON: Same objection.
8 THE WITNESS: And you're talking about	8 THE WITNESS: I actually don't know.
9 Android right now?	9 BY MS. HURST:
10 BY MS. HURST:	10 Q Well, how else does it make money?
11 Q The "Android platform" is the word the	11 A I don't know. There may be other ways.
12 phrase that I used.	12 I'm not responsible for Search or advertising.
13 A For the Android platform, which, to me, I	13 Q Okay.
14 interpret as the Android operating system AOSP	14 I just want to be clear. You're a Senior
15 is another term for it the goal there, as I 1	15 Vice President of Google, and you don't know how the
16 mentioned, is to build a operating system that's	16 company makes money; is that right?
17 used by manufacturers and operators, and it's not	17 MS. ANDERSON: Objection; form and beyond
18 tied to any specific company, including Google.	18 the scope.
19 Q Okay.	_
20 "Yes" or "no," is it one of your goals for 1	THE WITNESS: That's not what I said, no.  20 BY MS. HURST:
21 the Android platform to have Google be the default	
_	
22 search provider?	5
MS. ANDERSON: Objection; form.	23 Mr. Lockheimer?
24 THE WITNESS: Asked that way when you're	MS. ANDERSON: Objection; beyond the
25 talking about the Android platform or AOSP, tying or 1 Page 46	25 scope. 1 Page 48
	1 THE WITNESS. I halfaye the company makes 1
1 having any relation with any company, including 1	1 THE WITNESS: I believe the company makes 1
2 Google, is not a goal of Android. 3 BY MS. HURST:	2 money on in a number of ways.
	3 BY MS. HURST:
4 Q I'm asking whether it's a goal of Google.	4 Q How?
5 You're here testifying on behalf of Google 1	5 MS. ANDERSON: Objection; beyond the 1
6 today. You understand that, right?	6 scope.
7 A I do understand that I'm here to testify	7 THE WITNESS: I don't know all of them.
8 on behalf of Google today, yes.	8 But one of them, I do believe, involves advertising,
9 Q And Google makes money some of the ways	9 yes.
10 that it makes money is by selling advertising in 1	10 BY MS. HURST: 1
11 connection with searches, right?	11 Q Well, how else does it make money?
MS. ANDERSON: Objection; beyond the	12 MS. ANDERSON: Objection; beyond the 13 scope.
	LIA SCODE
13 scope.	
14 THE WITNESS: That's not my area of	14 THE WITNESS: I don't know.
14 THE WITNESS: That's not my area of 15 responsibility. 1	14 THE WITNESS: I don't know. 15 BY MS. HURST: 1
14 THE WITNESS: That's not my area of 15 responsibility. 1 16 BY MS. HURST:	14 THE WITNESS: I don't know. 15 BY MS. HURST: 16 Q Does Google expect to have any economic
14 THE WITNESS: That's not my area of 15 responsibility. 1 16 BY MS. HURST: 17 Q I just want to be clear. You don't know	14 THE WITNESS: I don't know. 15 BY MS. HURST: 16 Q Does Google expect to have any economic 17 benefit of any kind associated with Android, whether
14 THE WITNESS: That's not my area of 15 responsibility. 1 16 BY MS. HURST: 17 Q I just want to be clear. You don't know 18 whether Google makes money selling advertising on	14 THE WITNESS: I don't know. 15 BY MS. HURST: 16 Q Does Google expect to have any economic 17 benefit of any kind associated with Android, whether 18 directly or indirectly?
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14 THE WITNESS: That's not my area of 15 responsibility. 1 16 BY MS. HURST: 17 Q I just want to be clear. You don't know 18 whether Google makes money selling advertising on 19 searches? Is that your testimony? 20 MS. ANDERSON: Same objection. 1 21 THE WITNESS: That's not what I said, no. 22 BY MS. HURST:	14 THE WITNESS: I don't know. 15 BY MS. HURST: 16 Q Does Google expect to have any economic 17 benefit of any kind associated with Android, whether 18 directly or indirectly? 19 MS. ANDERSON: Objection; form. 20 THE WITNESS: I believe Google's desire is 1 21 for people to be able to access the Internet using 22 their phones so that they can reach Google's
14 THE WITNESS: That's not my area of 15 responsibility. 1 16 BY MS. HURST: 17 Q I just want to be clear. You don't know 18 whether Google makes money selling advertising on 19 searches? Is that your testimony? 20 MS. ANDERSON: Same objection. 1 21 THE WITNESS: That's not what I said, no. 22 BY MS. HURST: 23 Q All right.	14 THE WITNESS: I don't know. 15 BY MS. HURST: 16 Q Does Google expect to have any economic 17 benefit of any kind associated with Android, whether 18 directly or indirectly? 19 MS. ANDERSON: Objection; form. 20 THE WITNESS: I believe Google's desire is 21 for people to be able to access the Internet using 22 their phones so that they can reach Google's 23 services.
14 THE WITNESS: That's not my area of 15 responsibility. 1 16 BY MS. HURST: 17 Q I just want to be clear. You don't know 18 whether Google makes money selling advertising on 19 searches? Is that your testimony? 20 MS. ANDERSON: Same objection. 1 21 THE WITNESS: That's not what I said, no. 22 BY MS. HURST: 23 Q All right. 24 So you know that Google makes money	14 THE WITNESS: I don't know. 15 BY MS. HURST: 16 Q Does Google expect to have any economic 17 benefit of any kind associated with Android, whether 18 directly or indirectly? 19 MS. ANDERSON: Objection; form. 20 THE WITNESS: I believe Google's desire is 1 21 for people to be able to access the Internet using 22 their phones so that they can reach Google's 23 services. 24 BY MS. HURST:
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1 benefit for Google? 2 MS. ANDERSON: Objection; form. 3 THE WITNESS: Well, I believe if people 4 are using Google's services, there's a chance that 5 they may when I say "they," I mean end users 1 6 may do things that would cause profits or revenue 7 for for Google as opposed to, of course, if 8 they're not able to get to Google at all, then 9 obviously we're not present, so that would be not a 10 great thing for Google. 11 BY MS. HURST: 12 Q What strategies does Google pursue in 13 order to acquire economic benefit, either directly 14 or indirectly, from Android? 15 MS. ANDERSON: Objection; form. 16 THE WITNESS: Sorry, if you could ask me 17 that question again. What 18 BY MS. HURST: 19 Q What strategies does Google pursue in 10 order to acquire economic benefit, either directly 11 or indirectly, from Android? 12 A What strategies. Well, I think it's 23 it's what I just mentioned, which is it's 24 beneficial for Google if end users are able to 25 access Google. 1 Page 50  1 Q And how does Android play a role in that? 2 A Well, my belief is Android represents one 3 way, not the only, but one way in which people can 4 access Google for the Internet at large. 5 Q Well, how many people access can access 1 of the Internet using Android? 1 approximately 1.4 billion Android active devices in the world. 3 BY MS. HURST: 2 devices, but that's not the same thing as the 3 accessing the Internet. 4 BY MS. HURST: 5 Q Do you have a plan to get to the ner. 6 billion? 7 MS. ANDERSON: Objection; form 8 scope. 9 THE WITNESS: When you say "the lob billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you referring to a specific thin 10 billion," are you r	t 1 beyond the next g? 1 ive beyond the answer? e scope. asking me
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5 Q Well, how many people access can access 1 5 billion? 1	
	next
6 the Internet using Android? 6 MS. ANDERSON: Same objections	
7 MS. ANDERSON: Objection; form, beyond the 7 THE WITNESS: We're always plan	ning for
8 scope. 8 more growth to get to more customers.	
9 THE WITNESS: I don't know. 9 BY MS. HURST:	
10 BY MS. HURST: 1 10 Q What strategies do you intend to en	ploy in 1
11 Q It's about a billion and a half and 11 order to get to the next billion active Andro	
12 counting, right? 12 users?	
13 MS. ANDERSON: Same objections. 13 MS. ANDERSON: Objection; form	
14 THE WITNESS: I don't know. 14 THE WITNESS: Again, I don't know.	v if
15 BY MS. HURST: 1 15 you're referring to a specific project right n	
16 Q Can you approximate how many Android 16 when you say "the next billion," but, in ger	
18 MS. ANDERSON: Same objections.  18 customers like, and if we are able to deligh	
19 THE WITNESS: I can. 19 customers, then our belief is more custome	
20 BY MS. HURST: 1 20 use our products, so it's really focused on the	e end 1
21 Q Okay. How many? 21 user and the and their experience.	
22 MS. ANDERSON: Same objections. 22 BY MS. HURST:	
THE WITNESS: If your question is how many 23 Q Is that a complete statement of all	
24 active Android devices are there, which is different 24 present strategies at Google for acquiring y	
25 from how many people are accessing the Internet, 1 25 billion active Android users?	our next
Page 51	our next 1 Page 53

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1	MS. ANDERSON: Objection; form.	1	A Well, it's not my area of responsibility, 1
2	THE WITNESS: I think the fundamental way	2	so I would be guessing somewhat here, but I think
3 in	which products succeed in the market is by being	3	it means figuring out for the search team to figure
4 gre	eat products, and so that is absolutely something	4	out how to make searches on mobile more
5 we	e're focused on.	5	monetizable; I guess that's what it means.
6 BY	Y MS. HURST:	6	Q What's an OKR at Google?
7	Q And is that a complete statement of all	7	A OKR stands for objectives and key
8 pre	esent strategies at Google for acquiring your next	8	results.
9 bil	lion active Android users?	9	Q And is that some kind of a business
10	MS. ANDERSON: Objection; form.	10	planning process?
11	THE WITNESS: That's one of the ways in	11	A Yeah, you could say that.
12 wh	nich we're focused on getting to more customers.	12	
	Y MS. HURST:	13	preparing or delivering any OKRs?
14	Q And what are all of the other strategies	14	
	at you presently intend to employ in order to 1	15	- · · · · · · · · · · · · · · · · · · ·
1	quire your next billion active Android users?	1	for the OKRs for Android?
17	MS. ANDERSON: Objection; form.	17	
18	· ·		Android, one of the one of the areas that I'm
1	xt billion." So I don't know if you literally	1	responsible for is Android. Yes, I guess you could
	ean 1 billion people or if you're using that as 1	1	say that.
	rt of a proxy for more users. Can you clarify?	$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	Q Have you ever prepared an OKR for the
1	Y MS. HURST:		overall Android business?
1	Q Well, hasn't Google announced that it	23	
1	pes to acquire another billion active Android	1	don't know if you're specifically referring to
25 use	Page 54	25	business elements which you and I discussed Page 56
	1 age 54		rage 50
1 .	A I don't know. 1	1	earlier. It's kind of a confusing term that you're 1
1 2	A I don't know. 1  MS. HURST: All right. We've been going	1	earlier. It's kind of a confusing term that you're 1 using for me, but Android overall, there are many
2		2	
2	MS. HURST: All right. We've been going	3	using for me, but Android overall, there are many
2 3 for 4	MS. HURST: All right. We've been going about an hour. Let's take a break.	3	using for me, but Android overall, there are many OKRs that many people are involved in in creating and delivering.
2 3 for 4	MS. HURST: All right. We've been going about an hour. Let's take a break.  THE VIDEOGRAPHER: We are off the record	2 3 4 5	using for me, but Android overall, there are many OKRs that many people are involved in in creating and delivering.
2 3 for 4 5 at 1	MS. HURST: All right. We've been going about an hour. Let's take a break.  THE VIDEOGRAPHER: We are off the record 10:47 a.m.	2 3 4 5	using for me, but Android overall, there are many OKRs that many people are involved in in creating and delivering.  Q How does Google earn money, either 1
2 3 for 4 5 at 1 6 7	MS. HURST: All right. We've been going about an hour. Let's take a break.  THE VIDEOGRAPHER: We are off the record 10:47 a.m.  (Recess taken.)	2 3 4 5	using for me, but Android overall, there are many OKRs that many people are involved in in creating and delivering.  Q How does Google earn money, either directly or indirectly, associated with Android?  MS. ANDERSON: Objection; form.
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	,
1 BY MS. HURST: 1	1 So please give me a comprehensive 1
2 Q Well, it's your plan that to make it	2 description of all plans of Google, now or in the
3 more than a possibility if you can; isn't that true?	3 future, in any way associated with Android or any
4 A Our goal from the Android perspective is	4 part thereof.
5 to provide great end customer user experience and 1	5 MS. ANDERSON: Objection; form.
6 provide functionality and tools that customers are	6 THE WITNESS: All plans of Google related
7 desiring, and hopefully as part of doing that,	7 to Android, was that your question?
8 they'll end up using Google's products, but it's	8 BY MS. HURST:
9 ultimately the customer's choice.	9 Q Yes.
10 Q Let me just make sure I understand. You 1	10 A Okay. I don't know if I can enumerate 1
11 know you're testifying here today on behalf of all	11 every single thing. Google, as you probably know,
12 of Google, right?	12 is a pretty big company, so I can't read the minds
13 MS. ANDERSON: Objection; form.	13 of all 50- or 60,000 employees and know all of
14 THE WITNESS: I understand that I'm	14 their plans, but I'm happy to talk about the plans
15 testifying for Google, yes.	15 that I'm aware of.
16 BY MS. HURST:	16 Q Is there any kind of business planning
17 Q And you consented to testify on behalf of	17 strategy process at Google?
18 all of Google, right?	18 MS. ANDERSON: Objection; form.
19 MS. ANDERSON: Objection; form.	19 THE WITNESS: Business planning process?
20 THE WITNESS: I guess I don't understand 1	20 BY MS. HURST:
21 the distinction between all of Google and not all of	21 Q Yeah.
22 Google; you seem to be making a distinction.	22 A I think I can't speak for other teams.
23 BY MS. HURST:	23 I can certainly speak for my team. We all probably
24 Q Well, you keep telling me about things	24 do it in slightly different ways because we're all
25 from the perspective of Android, right? Several 1	25 in different businesses and different areas of 1
Page 58	Page 60
1 times you've said "from the perspective of Android." 1	1 products, so I think it's case-by-case. 1
2 Do you remember that testimony?	2 Q Well, is there a process by which Google
3 MS. ANDERSON: Objection; form.	3 adopts a plan for its business, prospectively, for
4 THE WITNESS: Well, there have been many	4 some period of time, a one-year plan, a three-year
5 questions and answers. I'm just clarifying the 1	5 plan, a five-year plan?
6 questions that you're asking me since you're talking	6 A Sorry, what does "prospectively" mean?
7 about Android. I'm just clarifying that I am, in	7 Q Looking forward.
8 fact, talking about Android.	8 A Well, I think the closest thing I can
9 BY MS. HURST:	9 think of is what you mentioned earlier, the OKRs.
10 Q Okay. 1	10 Q Does the OKR process involve coming up 1
11 I'm asking you, do you understand that	11 with goals and objectives for the business looking
12 you're here to testify today on behalf of the entire	12 forward for some period of time?
13 business of Google, not just one little piece of it?	13 A For some period of time, yes.
14 MS. ANDERSON: Objection; form.	14 Q Okay.
15 THE WITNESS: I understand that I'm here 1	15 And what's the longest period of time 1
16 for Google, yes.	16 covered by the OKRs?
17 BY MS. HURST:	17 MS. ANDERSON: Objection; form.
18 Q All right.	18 THE WITNESS: The longest period that I've
19 And you agree to testify on behalf of all	19 seen is an annual OKR, so it would be for one year.
20 of Google, right?	20 BY MS. HURST: 1
21 MS. ANDERSON: Objection; form.	21 Q Is there a three-year planning process at
22 THE WITNESS: Yes, I've agreed to testify	22 Google
23 for Google, yes.	23 MS. ANDERSON: Objection; form.
24 BY MS. HURST:	24 BY MS. HURST:
25 Q All right. 1	25 Q where you sit down and say, "Here's 1
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1 where I want to be in three years; these are my   2 goads?	
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21 MS. ANDERSON: Objection; form, beyond the 21 A Chromecast. 22 scope. 22 Q What else?	
22 scope. 22 Q What else?	
24 BY MS. HURST: 24 Q Please tell me all of them.	
	1
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1 a very precise answer. So I'm thinking through my 1	1 Q And what does that involve? 1
2 answers. Let's see, mentioned Android Auto,	2 A What does leading it involve?
3 Android Wear. Oh, Android TV and the IOT space.	3 Q What is the effort?
4 Q And you said IOT?	4 A I see. What is the effort? Well, there
5 A I did say that. 1	5 are a number of components to it. Would you like 1
6 Q Anything else?	6 me to enumerate them?
7 A I think that's it.	7 Q Please.
8 Q All right.	8 A So I can think of at least two distinct
9 Now, what document were you thinking of	9 efforts there that are interrelated but somewhat
10 that discusses these document or documents where you 1	10 separate. The first one we call Project Brillo, 1
11 were thinking of that discusses these markets that	11 and it is basically if you think of the Android
12 you've just mentioned?	12 operating system and how widely it's been adopted
13 MS. ANDERSON: Objection; form.	13 by the industry and "industry" here, I'm
14 THE WITNESS: They're generally for	14 referring to manufacturers basically one of the
15 instance, for the IOT one, I was thinking about a 1	15 benefits that Android brings as an operating system 1
16 recent blog post that we had done. For Android TV,	16 is that, first of all, there are a lot of
17 I was thinking about a review I had recently where	17 manufacturers who are familiar with it, but also
18 they were projecting a presentation; same thing for	18 there are a lot of component suppliers who are
19 Android Wear, ditto Android Auto.	19 familiar with it. And by "component suppliers" I'm
For enterprise, I was in London last week 1	20 talking about chip manufacturers or sensor 1
21 meeting with a team there that's working on this	21 providers, you know, silicon providers, hardware
22 in that space, and they showed me a document also,	22 providers.
23 so those were the documents that I was thinking of.	23 And so this is really, I'm talking
24 BY MS. HURST:	24 about the Android kernel and and and sort of
25 Q Who reports to you? 1	25 that realm, not the application framework or 1
Page 66	Page 68
1 A I have a number of reports. 1	1 nothing of that nature, more just the hardware 1
2 Q Do they break down in any way by these	2 portions of it.
3 functional market areas that you've been describing?	3 There are a lot of hardware providers
4 A Sometimes. It depends.	4 that are familiar with Android, so our idea was to
5 Q Is there someone who reports to you who	5 take that broad support base for the Android 1
6 you understand to be overall responsible for leading	6 kernel and drivers and so on and make it possible
7 Google's effort with respect to IOT; the Internet of	7 for folks who are familiar with that technology to
8 Things?	8 also build devices in the IOT space. So that's
9 A Not reporting directly to me, no.	9 what Project Brillo is.
10 Q Reporting up through some level that 1	10 And then the other I mentioned there 1
11 ultimately ends with you?	11 are at least two I can think of. The other one is
12 A Yeah, in my hierarchy, sure.	12 called Weave, and Weave is a you can think of
13 Q All right.	13 it as a protocol that enables devices to discover
14 And who is that?	14 each other and talk to each other.
, , , , , , , , , , , , , , , , , , , ,	One of the common problems in the IOT 1
16 Q Say that last one again.	16 space is that there are many, many devices out
17 A Gayathri. I believe her last name is	17 there that are capable of connecting to the
18 Rajan.	18 Internet and doing something useful for you in
19 Q Gayathri Rajan?	19 your life, but a lot of these devices don't know
20 A I believe that's her last name, yes. 1	20 how to talk to each other or don't even know about 1
21 Q All right.	21 each other. And our thinking was that if these
And they're responsible for some effort	22 devices could all talk to each other and exchange
23 with respect to Internet of Things?	23 status or commands, things like that, maybe the
24 A Correct. Together they're leading our	24 whole combination of all of these devices would be
25 IOT efforts.	25 much more powerful for the end user. 1
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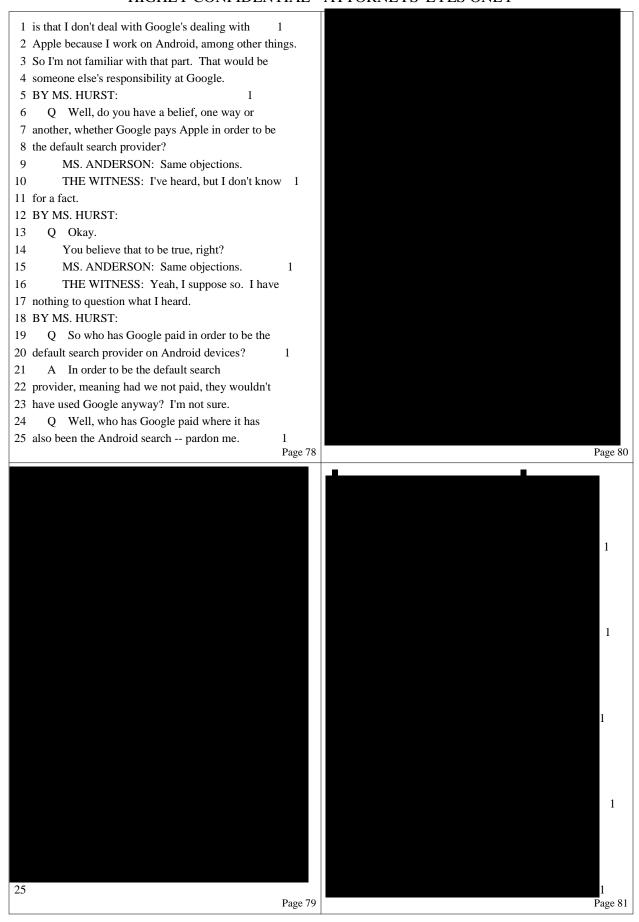
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1 So that's what Weave enables at a 1	1 with a with a holistic experience of devices 1
2 protocol level. It's separate from any operating	2 from various manufacturers that all sort of
3 system. It's agnostic to what the operating	3 interact with each other.
4 system is. It's just a way in which devices talk	4 Q And what benefit does Google expect to get
5 to each other, a language not even a way, in 1	5 out of that?
6 the sense that it's more like a language, a common	6 A Well, I think our going back to our
7 language, that's shared between devices.	7 earlier discussion, I think the number one benefit
8 Q Who is leading your effort with respect to	8 is happy customers. We think, you know, having a
9 Android TV?	9 very happy, engaged, delighted set of end users is
10 A Mario Queiroz. We can help you with the 1	10 very important to the health of or the success 1
11 spelling later.	11 of any product.
12 Q What is your effort with respect to	12 Q Do happy customers pay your salary?
13 Android TV?	13 A No. No customer has directly paid me,
14 A What is my effort?	14 no.
15 Q Google's effort. When I say "you," I'm 1	15 Q You've got to earn money to pay your 1
16 only talking about Google, right?	16 employees, right?
17 A Okay. What is our effort related to	17 A Yes, we do pay our employees, and we need
18 Android TV; that was your question?	18 money to pay for them.
19 Q Yes.	19 Q Do you expect to earn money somehow to
20 A Well, the thinking there is that 1	20 benefit economically from Android TV?
21 televisions these days have become pretty	21 A Sure. There's you know, we talked
22 sophisticated, and they all require an operating	22 earlier about application developers, you know, if
23 system. So we figured we have an operating system	23 application developers target their applications
24 with with a lot of adoption and a lot of, again,	24 for the TV platform, for Android TV, you know. The
	25 revenue share that we talked about for app 1
25 industry knowledge, and many times a phone 1 Page 70	
1 manufacturer also manufactures TVs and vice versa. 1	1 developers applies there as well.
2 So as an example, Sony makes phones, but	2 Q How else do you expect to earn money
3 they also make TVs, and so we thought it would be	3 associated with Android TV?
4 beneficial for Sony, just to use them as an	4 A I guess a similar theme, but instead of
5 example, if they could also use Android. They 1	5 applications, this could be content also. So, for 1
6 already use Android on phones. If they could also	6 instance, if if I subscribe to HBO now on my
7 use Android for TVs, that would be a cost saving	7 Android TV, you know, certainly HBO gets paid from
8 for them in terms of employee training and and	8 the consumer, but we also get a cut.
9 so on.	9 Q You said you saw a presentation last week
So that's why we've made Android TV 1	10 in London about Android TV? Did I 1
11 available for manufacturers of TVs. It's one of	11 A No, I didn't say that.
12 the reasons why we've done that.	12 Q You recently saw some kind of review
13 Q And what benefit does Google expect to get	13 presentation about Android TV?
14 out of making Android TV available?	14 A Yes.
15 A Well, we think it's similar to the IOT 1	15 Q When did you see that?
16 discussion we just had, but we think that consumers	16 A I don't remember the exact date. I have
17 and customers will benefit if various devices in	17 weekly reviews with many of my teams, not all, but
18 their lives, important devices in their lives, know	18 many of them, and I happen to have one with the
	19 Android TV team recently. I don't remember the
19 how to talk to each other.	-
20 And so there's a familiarity factor of 1	20 exact date, though. 1
21 being able to run similar applications but also	21 Q Was it within the last month? Last two
22 being able to one device knowing about another	22 months?
23 device might create new experiences that weren't	A It was in the last month.
24 possible before. So what we're trying to do here	24 Q Okay.
	05 A 1' M. O 9
25 is to make it sort of provide end customers 1 Page 71	25 And it was Mr. Queiroz? 1 Page 73

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1 A Mario Queiroz. 1 2 Q And this firspresentation include any 3 revenue projections? 4 A No. I don't believe so. 5 Q Who do you understand to be responsible at 1 6 Google for figuring out how Google is going to earn 7 money in connection with Android TV? 8 MS. ANDERSON: Objection; form. 9 THE WITNESS: How Google is going to earn 10 money on Android TV. This yrobably elosest to 1 11 the - to the Play team. 10 money on Android TV. This yrobably elosest to 1 11 the - to the Play team. 10 money on Android TV. This yrobably elosest to 1 11 the - to the Play team. 10 money on Android TV. This yrobably elosest to 1 11 the - to the Play team. 10 money on Android TV. This yrobably elosest to 1 11 the - to the Play team. 10 money on Android TV. This yrobably elosest to 1 11 the - to the Play team. 10 money on Android TV. 10 the play the play bear things. 11 the play the play the play that the play the		
3 Google have any other plan, strategy for earning 4 money in connection with Android TV? 5 Q Word by our understand to be responsible at 1 cologie for figuring out how Google is going to earn 7 money in connection with Android TV? 8 MS. ANDERSON: Objection: form. 9 THE WITNESS: How Google is going to carm 1 money on Android TV. That's probably closest to 1 1 11 the — to the Play team. 12 BY MS. HURST: 13 Q You mean the Google Play? 14 A Sorry, yes. The Google Play team. They 1 provide, for instance, the Play Store, which is our 1 1 d application store, among other things. 17 Q Do you have any plan to collect data 1 associated with consumer's use of Android TV? 19 A What sort of data are you referring to? 20 Q Any kind. 1 1		1 BY MS. HURST: 1
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5 Q Who do you understand to be responsible at 1 Google for figuring out how Google is going to earn 7 money in connection with Android TV2	3 revenue projections?	3 Google have any other plan, strategy for earning
6 Google for figuring out how Google is going to earn 7 money in connection with Android TV? 8 MS. ANDERSON: Objection: form. 9 THE WITNESS: How Google is going to earn 10 money on Android TV. That's probably closest to 1 11 the to the Play team. 12 BY MS. HURST: 13 Q You mean the Google Play? 14 A Sorry, yes. The Google Play team. They 15 provide, for instance, the Play Store, which is our 1 16 application store, among other things. 17 Q Do you have any plan to collect data 18 associated with consumer's use of Android TV? 19 A What sort of data are you referring to? 20 Q Any kind. 21 A I believe we do, with the user's consent. 20 Q Do you have any plan to commercialize your 23 collection of data associated with consumers' use of Android TV? 25 MS. ANDERSON: Objection; form. 25 MS. ANDERSON: Objection; form. 26 Well, the me rephrase. We, for instance, collect a credit card information from consumers so that they 4 can pay for the application that they want to buy or 5 the subscription service that they want to subscribe 1 6 to. So I guess credit card numbers is data, but 7 that's a very direct form of data. 8 HY MS. HURST: 9 Q Well, if you have the operating system in 10 the TV, then you can keep track of everything people 1 11 are watching, true? 12 MS. ANDERSON: Objection; form. 14 BY MS. HURST: 15 Q You could do so if you wanted to, correct? 15 MS. ANDERSON: Objection; form, beyond the 17 scope. 18 THE WITNESS: Not necessarily, no. 14 BY MS. HURST: 10 Q So you've never heard anybody discussing 1 21 any idea that Android TV could be used to, for work on that its that? T and if there's an ad related to 11 the the provide of the default search provider in its hut the warn to subscribe 1 16 MS. ANDERSON: Objection; form. 1 Q BY MS. HURST: 1 Q Well, what is word of android TV or any of our 25 platforms, just like everyone else. 1 THE WITNESS: To necessarily, no. 14 BY MS. HURST: 15 Q You could do so if you wanted to, correct? 16 MS. ANDERSON: Objection; form, beyond the 17 scope. 18 THE WITNESS: I'm not sure,	4 A No, I don't believe so.	4 money in connection with Android TV?
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12 BYMS, HURST:   12 The YouTube channel they're watching, I could see   13 that being a source of revenue for Google.   14 Q So you can put your own applications on   15 the TV and earn money through your own applications?   1	10 money on Android TV. That's probably closest to 1	10 because I don't work on that team, but I think you 1
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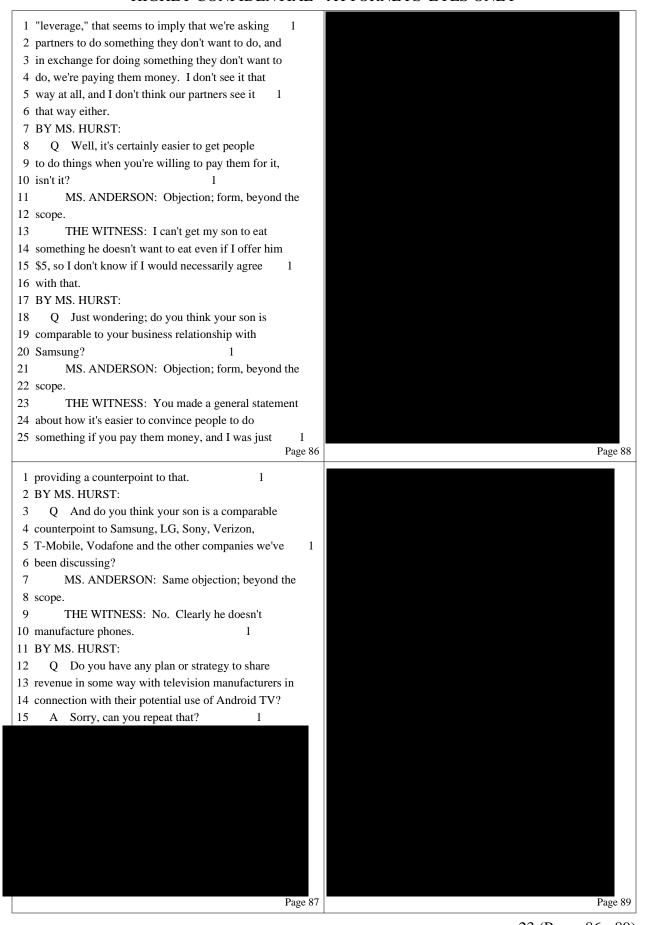
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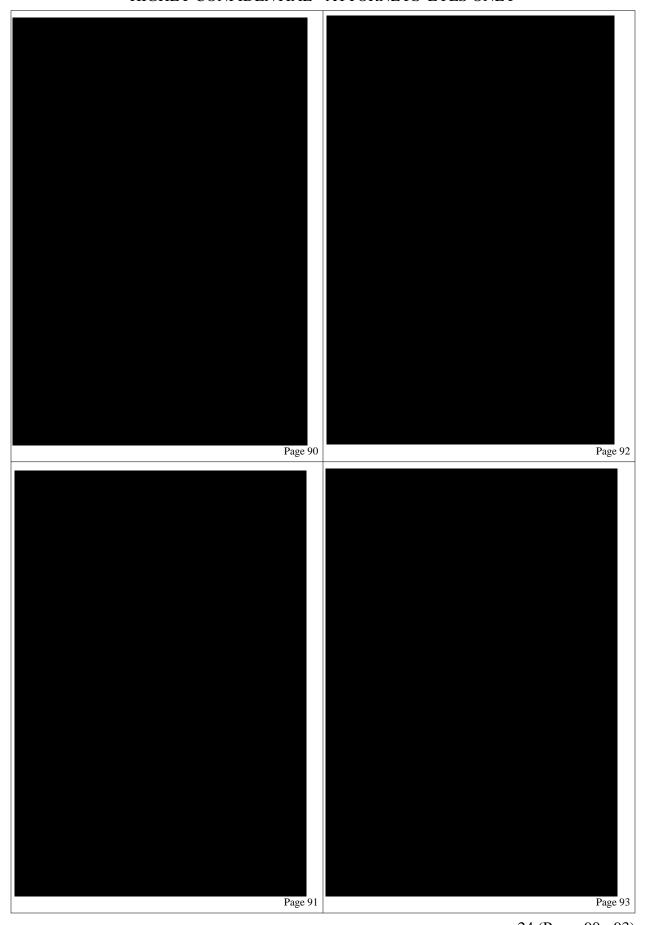
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	1 going and whether it's gone in this direction or 1
	2 not.
	3 BY MS. HURST:
	4 Q Well, what factors, other than historical
	5 circumstances, can you identify that Google takes 1
	6 into account in deciding whether to pay its business
	7 partners revenue associated with searches on their 8 devices?
	9 MS. ANDERSON: Objection; form, beyond the
	10 scope. 1
	11 THE WITNESS: Well, one factor I can think
	12 of is whether that would be excuse me whether
	13 that would be material to them. In other words, if
	14 a partner is only selling, you know, a small number
	15 of devices, let's say, and only, you know, a small 1
	16 fraction of their users are actually doing anything
	17 with regard to Search, maybe giving them a cut of
	18 that is such a small number that we we're better
	19 off working with those partners in other ways.
	20 BY MS. HURST: 1
	21 Q Doesn't it also depend on who has the
	22 leverage in the relationship?
	23 MS. ANDERSON: Same objections.
	24 THE WITNESS: What do you mean by that?
25	25
Page 82	Page 84
1	
1	1 BY MS. HURST: 1
2	
2	2 Q Well, are you familiar with the concept of
2	
2 3 And what are the factors that go into	2 Q Well, are you familiar with the concept of 3 leverage in negotiations?
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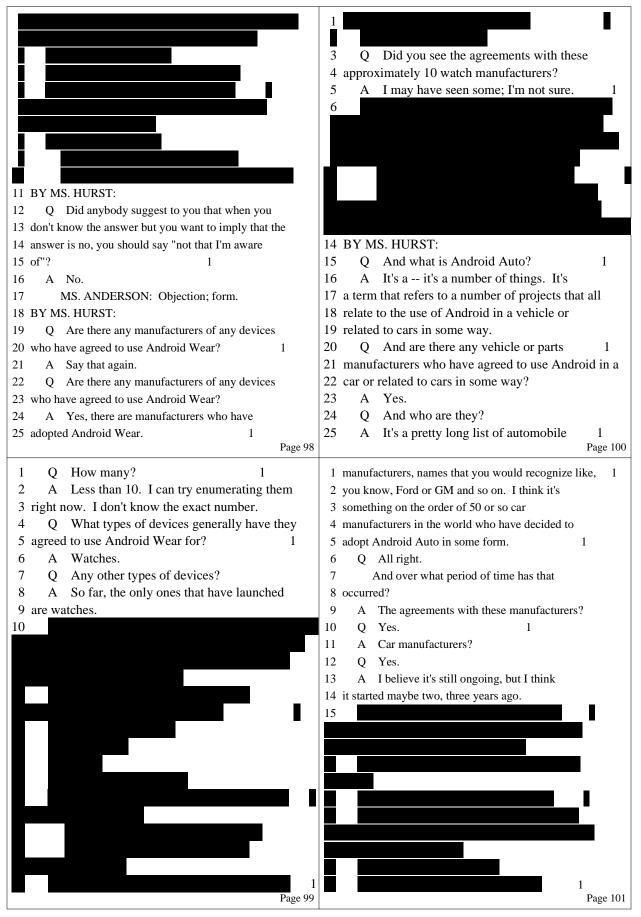


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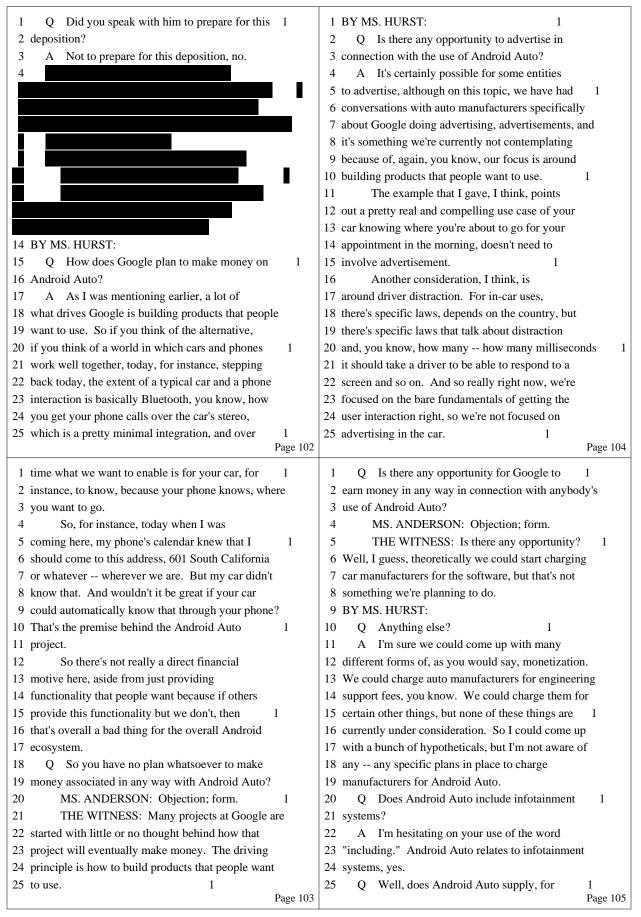


Case 3:10-cv-03561-WHA Document 2131-2 Filed 04/20/17 Page 25 of 153 HIGHLY CONFIDENTIAL - <u>ATTORNEYS' EYES ONLY</u> 11 Q Is there a group somewhere responsible for 12 getting people to use Android Wear? A There's a group of people who's 14 responsible for not only developing but also 15 deploying Android Wear, yes. Q When you say "deploying," that's what you 16 17 mean by getting other people to use it? Q Is there any television manufacturer, A Yeah, generally just getting other people 19 other than Sony, who's agreed to use Android TV? 19 to use it, supporting them when they've decided to 20 Yes. Α 20 use it, helping them commercialize it, helping them 21 Q Who else? 21 support it. 22 A Sharp is an example. Q Okay. 23 Q Anyone else? 24 A I believe Philips TP Vision is another 25 example. Page 94 Page 96 Q Anyone else? A In terms of actual TV sets, you know, 3 like the one we have over there, an actual TV set, 4 I believe that's the current sort of announced 5 list. There are others that we're in discussions 6 with, but there are also other TV partners as well. Q Is your knowledge sufficient for you to 19 say one way or another? A Is my knowledge sufficient to say one way 1 21 or another? I didn't say "one way or another." I 22 said "not that I'm aware of," so... Q So you don't know? 24 A I don't know for a fact, no. Page 95 Page 97

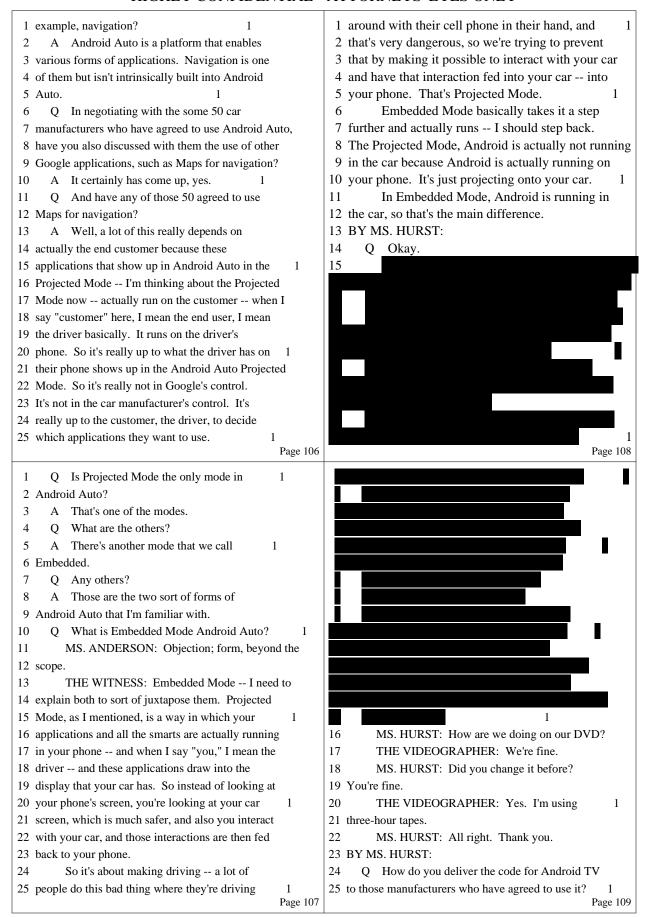
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# Case 3:10-cv-03561-WHA Document 2131-2 Filed 04/20/17 Page 29 of 153 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1 A Flectronically. 1 2 Q Is that in a personalized communication of 3 some sort or just a generic download? 4 A It depends on the partner and the phase 5 of the project. 1 6 Q Can you explain? 7 A Sure. So, for instance, in the – in the 8 early days of - I'll use Sony as an example again. 9 In the early days of the Sony project where they 10 were one of the first partners to launch with 1 11 Android TV, we would share sort of the in-progress. 12 source code the first partners to launch with 1 12 hadroid TV, we would share sort of the in-progress. 12 source code the first partners to launch with 1 15 publicly so that fings that the vary and and any analysis of the spring the product is 10 what I mean by depends on the partner and timing. 17 If something is still under development. 18 we typically do the development privately with 19 those partners, and only when the product is 20 commercialized and available for purchase or, you 1 12 know, at least publicly available. 24 Q And is it your understanding that that's 25 consistent with the GPL license? 1 Page 111 1 A Yes. 1 Page 110 1 A Yes. 1 Page 110 1 A Yes. 1 Page 111 1 M. SANDERSON: Objection; form, beyond the 3 scope. 2 MS. ANDERSON: Objection; form, beyond the 3 scope. 3 Phys. HURST: 4 Q Approximately how many? 2 THE WITNESS: Ve make sure that when we 1 scance and according source 2 on the scope and a so of the partner and timing. 1 The content of the product is 2 portions of the warm of the partner and timing. 1 to the color and available. 4 The page 112 to the product is 2 portions of the warm of the development. 1 that the anonanced about a year, year and a half 17 ago. 1 that we announced about a year, year and a half 17 ago. 1 that we announced about a year, year and a half 17 ago. 1 that we announced about a year, year and a half 17 ago. 1 that we announced about a year, year and a half 17 ago. 1 that we announced about a year, year and a half 17 ago. 1 that we announced about a year, year and a half 17 ago. 1 that we announced about a year, year and a		
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3 is a physical cable. In the case of W-Fi or 4 ZigBee or Z-Wave, they're wireless transmission 5 protocols. Weave is a protocol that sits on top of 1 6 that, so Weave doesn't really care whether it's a 7 wired connection, a wireless connection or pigeons 8 or, you know, doesn't really care how information is 9 transferred from one place to another. It's the 10 language that's used in those communications. 1 11 BY MS. HURST: 12 Q Are Weave and Brillo independent of one 13 another; that is, could someone choose to use one 14 and not the other? 15 MS. ANDERSON: Objection; form, beyond the 16 scope. 17 THE WTINESS: Correct. They are 18 independent in that, for instance, a manufacturer 19 may already have an operating system that they're 20 happy with, but they want to be able – for their 1 21 devices to be able to talk to other devices, using 22 Weave, so they could, then, continue to use their 23 operating system, which is not Brillo but still 24 adopt Weave so that they could participate in – in 25 those cross-device communications. 1 Page 114  1 BY MS. HURST: 1 Q And you've characterized Brillo as an operating system. Is that client, server or both? 4 MS. ANDERSON: Objection; form, beyond the 5 scope. 1 1 G THE WTINESS: When I think about Brillo, 7 Im referring to the low-level operating system 8 kernel and driver level of Android, so it's client. 9 BY MS. HURST: 10 Q So take an example - 1 11 Give me an example of a device that's 12 currently using Brillo. 13 A I cart think of an example. Brillo is at 4 still in the preview phase, so it hasn't 15 commercialization aspects of things.  8 Q Do yon have any. 10 monetize Brillo . 11 MS. ANDERSON: Objection; form. 12 BY MS. HURST: 13 Q - either directly or indirectly. 14 A I don't know. 15 Q What server side system do you contemplate 1 16 will be used with Brillo. 17 MS. ANDERSON: Objection; form, beyond the 18 scope. 19 THE WTINESS: There is no one server side 20 for home proving the proving th		
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1 scope. 1	1 working well in the field or not so that they can 1
2 THE WITNESS: I don't think there's actual	2 rectify any issues.
3 product names yet. As I mentioned earlier, the	3 We believe that's sort of sort of a
4 product is still in its early days. But some of the	4 basic infrastructural technology that we can
5 examples of technologies or services that we may 1	5 provide and really up to the manufacturer whether 1
6 provide include OTA technology, so the ability to	6 they want to adopt it or not.
7 for these devices, IOT devices, to update	7 Q Do you have any plan or strategy to
8 themselves.	8 address particular markets for IOT?
9 In order for a device to update itself, it	9 A Particular markets. Well, that is
10 needs to be able to talk to a server somewhere and 1	10 something we're actively debating. An obvious one 1
11 get its new software, so we have technology that	11 would be the home. People you know, a lot of
12 does this, and we plan to make it available for	12 the IOT devices these days seem to be focused
13 for users of Brillo. But, again, not mutually	13 around, quote, the smart home, and so we certainly
14 exclusive to any other form of OTA service.	14 believe that IOT manufacturers who adopt Brillo
15 BY MS. HURST: 1	15 and/or Weave will want to build devices in that 1
16 Q Do you have any server side data	16 category, so but it really, you know as a
17 collection and reporting technology for	17 platform provider, it really is up to ultimately
18 associated for use with Brillo?	18 up to the device manufacturer to decide what sort
MS. ANDERSON: Objection; form, beyond the	19 of products they want to build.
20 scope. 1	So, for instance, if a manufacturer 1
21 THE WITNESS: I believe we're also working	21 wants to build a smart traffic light, they could
22 on some rudimentary form of analytics. If a	22 with Brillo; that's fine by us. Industrial use
23 manufacturer wants it, we'll make it possible for	23 cases, commercial use cases, personal use cases,
24 them to log certain events that they deem they,	24 it's really up to the manufacturer to decide.
25 the manufacturer, deem interesting, and we'll help 1	25 Q While it may be up to the manufacturer to 1
Page 118	Page 120
1 them collect that information and inspect that 1	1 decide, you're having discussions with 1
2 information.	2 manufacturers, right?
3 BY MS. HURST:	3 A Sure. And they're telling us what they
4 Q All right.	4 want to do with Brillo, which is an important
5 So collection and inspection of data; is 1	5 feedback mechanism for us. So if we discover that, 1
6 that the term you're using?	6 you know I'm making this up, but just as an
7 A Yeah, just yes, that's the term I	7 example, if we talk to 10 manufacturers and seven
8 happen to use right now. I don't know if that's	8 of them told us they want to work on smart traffic
9 the term the team is using on a day-to-day basis,	9 meters, maybe that will inform us on what sort of
10 but just in the sense that there are a lot of 1	10 technologies we should optimize for in Brillo.
11 for these manufacturers for IOT devices, a lot of	And so it's more of a requirements
12 them end up reinventing the wheel over and over	12 gathering or sort of feedback loop effort that
13 again.	13 we're doing right now.
So every manufacturer feels like they	14 Q So at this point, you're broadly
15 need to make their devices updatable, okay. If 1	15 addressing the market, and you haven't made any 1
16 everyone is reinventing the OTA infrastructure,	16 decisions to either to exclude any segment of it;
17 that would be a little bit silly because that's	17 is that a fair characterization?
18 just table stakes, and they're not spending	18 MS. ANDERSON: Objection; form.
19 that those engineering resources working on	19 THE WITNESS: It's not exactly what I
20 actual product differentiators.	20 said. The way I would characterize it is not only 1
21 So along similar lines, some form of	21 for Brillo and Weave but for the IOT industry, it's
22 analytics, we believe, is almost table stakes for	22 still very early. It's a new sort of nascent area
23 these devices. You know, as an example would be,	23 of technology, so I think we're all learning and
24 has the device crashed? You know, a manufacturer	23 of teemlology, so I timin we le un rearming and
,	24 we're all figuring out what are the important and
25 probably wants to know whether their product is 1	
	24 we're all figuring out what are the important and

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1 so it's part of the learning is to talk to various 1	1 scope.
2 partners to exchange ideas and understand where	2 THE WITNESS: Really depends on the
3 things are headed.	3 diagram. The one I'm thinking of, the core
4 BY MS. HURST:	4 libraries, I believe, refer to native level runtime
5 Q All right. 1	5 support in the form of Bionic. 1
6 So as part of that process, at present	6 BY MS. HURST:
7 have you excluded any market as one that you intend	7 Q Let me ask you something: For the Android
8 to address with the Internet of Things?	8 platform as a whole, is there something that is
9 A Excluded?	9 commonly referred to at Google as the core
10 Q Yeah. 1	10 libraries?
11 A I don't know.	11 MS. ANDERSON: Objection; beyond the
MS. HURST: What time are we expecting the	12 scope.
13 sandwiches to arrive?	13 THE WITNESS: I don't think so. I mean,
14 MR. HWANG: Another 15 minutes.	14 I've I've been working on as I mentioned, on
15 BY MS. HURST:	15 Android for nine and a half years now, and when you 1
16 Q Does Brillo include the core libraries of	16 say "core libraries," I'm not sure which one you're
17 Android?	17 referring to, so that's why I'm asking. I
18 MS. ANDERSON: Objection; form, beyond the	18 believe you know, my guess is if you asked 10
19 scope.	19 engineers what "core library" is and you forced them
20 THE WITNESS: Can you define "core 1 21 libraries of Android" for me?	20 to answer, you would probably get, you know, at 1 21 least five different answers.
22 BY MS. HURST:	22 BY MS. HURST:
23 Q Well, have you ever seen that thing on the	Q So is there any notion at all at Google as
24 Google website that shows the Android stack from the	24 to which libraries are more fundamental or essential
25 Linux kernel at the bottom, the applications 1	25 or important to the Android platform?
Page 122	Page 124
1 framework at the top?	1 MS. ANDERSON: Objection; form, beyond the 1
1 framework at the top? 1 2 You've seen that, right?	1 MS. ANDERSON: Objection; form, beyond the 1 2 scope.
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1 BY MS. HURST: 1	1 relate to Lollipop? Does it include all of it? 1
2 Q You're aware that this lawsuit involves,	2 Does it include some subset of it? Superset of it?
3 in part, the allegation by Oracle that Google	3 MS. ANDERSON: Beyond the scope.
4 unlawfully copied 37 packages from the Java platform	4 THE WITNESS: It involves trying to
5 API, right?	5 describe a Venn diagram. It involves a subset and 1
6 MS. ANDERSON: Objection.	6 superset at the same time; a different set. It
7 Just caution the witness not to disclose	7 involves some commonality, but in some areas it has
8 communications with counsel as grounds of privilege,	8 more, in some areas it has less than, let's say, a
9 but otherwise, you may answer.	9 Lollipop phone.
10 THE WITNESS: I'm familiar with the fact 1	10 BY MS. HURST:
11 that there is allegations there are allegations	11 Q Are you a Java programmer?
12 from Oracle, yes.	12 A I have programmed in the Java language
13 BY MS. HURST:	13 many years ago, predating my time at Google, just
14 Q And do you know which of the 37 packages	14 as a hobby, just to learn the language but not
15 that are at issue?	15 never professionally and not extensively.
MS. ANDERSON: Same objections.	16 Q Is your knowledge of Android sufficient
17 THE WITNESS: No, I'm not.	17 that if I put the 37 package in front of you, you
18 BY MS. HURST:	18 could tell me whether they were in Android TV, for
19 Q Can you tell me whether any of them or	19 example, the one we were just discussing?
20 in whole or in part is part of Brillo?	20 MS. ANDERSON: Beyond the scope. 1
21 MS. ANDERSON: Same objections and beyond	21 THE WITNESS: No, I don't think I could
22 the scope.	22 answer that question.
23 THE WITNESS: Without knowing since I	23 BY MS. HURST:
24 don't know the details of the APIs in question, it's	24 Q Same with respect to Brillo, Android Wear,
25 not possible for me to answer whether they're 1	25 Android TV, Android Auto, same answer?
Page 126	Page 128
1 included in Brillo or not.	1 MS. ANDERSON: Beyond the scope. 1
2 BY MS. HURST:	2 THE WITNESS: Whether I can identify if
3 Q Are they in Android Auto, all or any of	3 you showed me the packages whether they're included
4 them?	4 in those products? Yeah, that's I'm not close
5 A When you say "all or any of them," you're 1	5 enough to the technology to be able to answer that 1
6 referring to Projected and Embedded Mode?	6 with confidence.
7 Q I'm referring to all of Android Auto, and	7 BY MS. HURST:
8 I'm asking whether any all or any of the 37	8 Q Does Google earn revenue associated with
9 packages at issue are found in Android Auto?	9 its Google Maps application in any way?
MS. ANDERSON: Objection; beyond the 1	MS. ANDERSON: Objection; form, beyond the 1
11 scope.	11 scope.
12 THE WITNESS: Because I don't know the	12 THE WITNESS: I don't know.
13 details of the packages that are in question, I	13 BY MS. HURST:
14 don't think I can answer that question.	14 Q What plan or strategy does Google have to
15 BY MS. HURST: 1	15 economically benefit, either directly or indirectly, 1
16 Q And how about Android TV?	16 from Brillo?
MS. ANDERSON: Beyond the scope.	MS. ANDERSON: Objection; form, beyond the
18 THE WITNESS: Same answer. Because I	18 scope.
19 don't know the details of the packages in question,	19 THE WITNESS: I'm not aware of any direct
20 I can't say for sure whether they're included or 1	20 form of economic benefit for Google from Brillo. 1
21 not.	21 In terms of indirect, I guess you could
22 BY MS. HURST:	22 make a similar sort of point that I was making
23 Q Does Android TV include less than the	23 earlier on the phone side, which is if someone
24 entire Android platform? So let's just take	24 decides to build a device using Brillo that somehow
	- · · · · · · · · · · · · · · · · · ·
25 Lollipop release, for example. How does Android TV 1 Page 127	25 connects them to the Internet and somehow access 1 Page 129

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1 Google services, then I guess that could potentially 1	1 MS. ANDERSON: Same objections. 1
2 be a gain for Google. But it's somewhat	2 THE WITNESS: I don't even think that's a
3 hypothetical.	3 goal, per se. I think I know you don't like to
4 Again, products haven't launched. We	4 hear this answer, but I'll mention it again.
5 don't know what type of products are going to come 1	5 One of the benefits for Google is actually 1
6 out. You know, if someone decides a manufacturer	6 having customers who like using products that were
7 decides to build a washing machine with Brillo,	7 built with Google or has some sort of Google
8 which is not out of sort of out of the question,	8 association with it, whether it's technical behind
9 I don't I don't know, you know, what sort of	9 the scenes or it's an actual product, end user
10 direct or indirect benefit there would be for Google 1	10 visible products. These are benefits for Google. 1
11 at that point.	So I I I know you told me not to
12 BY MS. HURST:	12 answer in that context, but that is the true answer.
13 Q Is your strategy for Brillo purely	13 So I don't know how else to answer it.
14 defensive, that is, you're just trying to make sure	14 BY MS. HURST:
15 that nobody else gets a foothold and drives out 1	15 Q Well, it's only a benefit to Google if 1
16 Android on phones through Internet of Things in the	16 those customers using those products and services if
17 home?	17 ultimately you find a way to make money off of them,
MS. ANDERSON: Objection; form, beyond the	18 right? Otherwise, it's just a cost?
19 scope.	MS. ANDERSON: Objection; form, beyond the
20 THE WITNESS: I wouldn't characterize it 1	20 scope. 1
21 that way. I think it goes back to one of the	21 THE WITNESS: I don't necessarily agree,
22 guiding principles of how, at least, I think about	22 actually. I think you could for instance, you
23 products, which is, build things that people want,	23 could say that first of all, for Brillo devices,
24 and, you know, in the case of Brillo, I explained	24 it's really up to the manufacturer to decide what
25 it, a benefit that we believe we bring also to the 1	25 the products are and the success of those particular 1
Page 130	Page 132
1 industry, which is a lot of these manufacturers are 1	1 products, whether it's a washing machine or traffic 1
2 already familiar with the low level, you know, the	2 signal or whatever it is, is really up to the
3 kernel and drivers of Android. So it's it's a	3 manufacturer to make it a success or not.
4 convenience for them as well, so we feel that that's	4 So Google is not in direct control over
5 a win-win scenario.	5 the the success or, you know, the fate of these 1
6 BY MS. HURST:	6 products.
7 Q I really want to focus on the benefit to	7 But one of the benefits obviously is if
8 Google now, not the benefit to the consumers and the	8 these products are successful, certainly it benefits
9 manufacturers or whoever else you might consider,	9 the manufacturer, but it also benefits Google in
10 all right?	10 that these manufacturers are being successful using 1
For the benefit of Google, is it true that	11 the technical underpinnings of Android. And, again,
12 your strategy for Brillo is purely defensive; that	12 the technical underpinnings that I'm referring to is
13 is, you're just trying to make sure that nobody else	13 the kernel and drivers, and that if you take the
14 gets a foothold on devices in the phone in the	14 long view is a benefit for Google and Android
15 home that might ultimately drive out Android?	15 because that means there are more engineers who are 1
16 MS. ANDERSON: Same objections.	16 familiar with some portion of Android, that's a good
17 THE WITNESS: Well, you said "purely," so	17 thing for us in terms of industry adoption of
18 if that "purely" means "exclusively," then I	18 Android.
19 disagree with your statement.	19 BY MS. HURST:
20 BY MS. HURST: 1	20 Q Well, why is just industry adoption 1
21 Q Okay.	21 valuable to you?
Is it true that one goal for your strategy	22 A I don't know if I said "just industry
23 with Brillo is to make sure that nobody else gets a	23 adoption," so I don't know if what you're
24 foothold in the home using Internet of Things that	24 implying by "just."
25 might drive out the Android platform?	25 Q Well, I think we've been systematically 1
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1 excluding everything else, right? You're not 1	1 scope.
2 charging for it, you know, if consumers use it, and	2 THE WITNESS: It's certainly not, you
3 that doesn't result in any money to you, you know.	3 know, a dollar per person. It's higher than that,
4 We're down now to you disagreed with me that your	4 but I don't know, you know, how much higher than
5 your strategy for benefiting was only if you find a 1	5 that. 1
6 way to make money off of them, and the reason you	6 BY MS. HURST:
7 disagreed with me because you said at the base	7 Q Is Google investing in 50-people headcount
8 level, if you take the long view, it's good for you	8 on Brillo this year with any plan or strategy for
9 to have industry adoption. So we've excluded making	9 economic return in the future?
10 money, and now you're just down to industry 1	10 MS. ANDERSON: Objection; form. 1
11 adoption.	THE WITNESS: No, I haven't seen a P&L or
How is that beneficial to you?	12 a presentation or anything like that that says by
13 A Well, I didn't say that was the only	13 year whatever year, you know, the second year,
14 benefit. But that's certainly one of the benefits	14 third year, fifth year, tenth year, Brillo is going
15 is industry awareness and adoption of Android.	15 to make X amount of dollars. I've never seen 1
16 In other ways that could benefit us, who	16 anything like that.
17 knows? Like I said, it's a long game. We don't	17 It's pretty typical at Google and many
18 know how this industry will evolve, how these	18 companies, in fact, to invest in new technology
19 products will evolve, what sort of services will	19 areas and and try out new things. That's
20 take off and not take off. So it's an investment, 1	20 that's what we're doing here. This is how
21 and and we'll see how it plays out.	21 innovations happen.
22 Q So how many people are working on Brillo,	22 MS. ANDERSON: The lunch is here, by the
23 any aspect of it, whether it be developing it,	23 way.
24 deploying it, selling it, making prototypes,	MS. HURST: Well, why don't we stop there,
25 whatever? 1	25 then. 1
Page 134	Page 136
1 A I don't know the exact number. 1	1 THE VIDEOGRAPHER: We are off the record 1
2 Q Can you approximate?	2 at 12:47 p.m.
3 A Sure, an approximation probably is 50	3 (Lunch recess taken.)
4 people, something like that.	4 THE VIDEOGRAPHER: We are back on the
5 Q And how much is that costing you in 1	5 record at 1:31 p.m.
6 headcount this year?	6 BY MS. HURST:
7 A Well, it's 50 people, so it's 50 heads.	7 Q How does Google use the term "next
8 Q How much is it costing you? How much are	8 billion"?
9 you paying those people? How much is Google how	9 MS. ANDERSON: Objection; vague excuse
10 much is it costing Google to pay those 50 people 1	10 me, objection; form.
11 this year?	11 THE WITNESS: Well, I think it really
12 MS. ANDERSON: Beyond the scope.	12 depends on who's saying it and the context in which
THE WITNESS: So you're talking about the	13 it's used.
14 OPEX. I don't actually know how to translate from	14 BY MS. HURST:
15 headcount into OPEX. 1	15 Q Well, have you used seen that phrase,
16 BY MS. HURST:	16 "next billion users" within Google?
17 Q Can you approximate?	17 A Sure.
18 MS. ANDERSON: Beyond the scope.	11/ A Suite.
	18 Q Okay.
19 THE WITNESS: We can guess. We can we	18 Q Okay. 19 And how have you seen it used?
19 THE WITNESS: We can guess. We can we 20 can come up with an average salary for someone, but 1	18 Q Okay. 19 And how have you seen it used? 20 A Well, it refers to a a project, I
19 THE WITNESS: We can guess. We can we 20 can come up with an average salary for someone, but 1 21 I have no idea what else we need to consider.	18 Q Okay. 19 And how have you seen it used? 20 A Well, it refers to a a project, I 21 guess, or a group of people working on a project.
19 THE WITNESS: We can guess. We can we 20 can come up with an average salary for someone, but 21 I have no idea what else we need to consider. 22 BY MS. HURST:	18 Q Okay. 19 And how have you seen it used? 20 A Well, it refers to a a project, I 21 guess, or a group of people working on a project. 22 That's what it refers to.
19 THE WITNESS: We can guess. We can we 20 can come up with an average salary for someone, but 21 I have no idea what else we need to consider. 22 BY MS. HURST: 23 Q Do you think it's \$2 million? \$3 million?	18 Q Okay. 19 And how have you seen it used? 20 A Well, it refers to a a project, I 21 guess, or a group of people working on a project. 22 That's what it refers to. 23 Q And what is that project?
19 THE WITNESS: We can guess. We can we 20 can come up with an average salary for someone, but 1 21 I have no idea what else we need to consider. 22 BY MS. HURST: 23 Q Do you think it's \$2 million? \$3 million? 24 \$10 million? What you do you think?	18 Q Okay.  19 And how have you seen it used?  20 A Well, it refers to a a project, I  21 guess, or a group of people working on a project.  22 That's what it refers to.  23 Q And what is that project?  24 A It's to make in a nutshell, it's to
19 THE WITNESS: We can guess. We can we 20 can come up with an average salary for someone, but 1 21 I have no idea what else we need to consider. 22 BY MS. HURST: 23 Q Do you think it's \$2 million? \$3 million?	18 Q Okay. 19 And how have you seen it used? 20 A Well, it refers to a a project, I 21 guess, or a group of people working on a project. 22 That's what it refers to. 23 Q And what is that project?

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1 services more useful and more appealing to 1 "fragmentation" is it means many things to many 2 customers in what we call emerging markets. 2 different people. And so that's why I'm trying to O What is Android One? 3 3 be very precise with what -- which form of Android One is an initiative around 4 "fragmentation" you want me to talk about. 5 bringing low-cost but very high-quality phones to 5 BY MS. HURST: 6 the emerging markets, so it's a brand that Q What did you mean when you put it in your 7 manufacturers can adopt if they -- if they adhere 7 Android SDK agreements? 8 to certain guidelines. It's a brand that they can MS. ANDERSON: Objection; form. 9 use to market their device that -- that to 9 THE WITNESS: I would need to see the 10 customers, end users, signifies high quality, low 10 agreement. I don't remember. 11 cost, always having the latest version of the 11 BY MS. HURST: 12 operating system, security updates and so on. Q So you don't have any idea what the 12 Q Have you modified the Android platform in 13 anti-fragmentation provision in your Android SDK 14 any way in connection with Android One? 14 agreement says or means? A Have we modified the Android platform in 15 MS. ANDERSON: Objection; form, beyond the 15 16 any way? 16 scope. 17 Q Uh-huh. 17 THE WITNESS: I don't remember what the A Well, we're always making modifications 18 SDK agreement says. So if you have a copy of it, 19 to the Android platform. Some changes have been 19 I'd love to take a look at it. 20 inspired by needs in the emerging market and --20 BY MS. HURST: 21 emerging markets, and Android One certainly has 21 Q As you sit here right now, can you tell 22 been a catalyst for some of these changes. 22 me, is there an anti-fragmentation provision in any Q Is there a separate version of the Android 23 Android SDK agreement? 24 platform for Android One? 24 MS. ANDERSON: Beyond the scope. 25 MS. ANDERSON: Beyond the scope. 25 THE WITNESS: I'm not sure. Page 138 Page 140 THE WITNESS: No, there is not. 1 1 BY MS. HURST: 2 BY MS. HURST: Q Has Google ever had a strategy to avoid Q What strategies or tactics have you used 3 fragmentation by putting a provision in the Android 4 in order to avoid a fragmentation of the Android 4 SDK agreement? 5 platform? 5 A In the Android SDK agreement, I'm not MS. ANDERSON: Objection; form. 6 sure. 7 THE WITNESS: Can you define 7 Q Have you ever read the Android SDK 8 "fragmentation"? 8 agreement, any version of it? 9 BY MS. HURST: 9 MS. ANDERSON: Beyond the scope. 10 Q Lack of compatibility among various 10 THE WITNESS: I'm not sure. I'd have to 11 versions of Android, to start. 11 take a look to see if it jogs my memory. A Lack of compatibility between various 12 BY MS. HURST: 13 versions of Android. So when you say "various Q As you sit here now, can you tell me what 14 versions of Android," do you mean, for instance, 14 plan or strategy associated with Android Google was 15 Marshmallo and Lollipop and things like that? 15 pursuing by including in its Android SDK agreement a Q I mean, broadly speaking, everything that 16 prohibition on developers taking any actions that 17 you call Android or is in any way associated with 17 may cause or result in the fragmentation of Android? 18 it. 18 MS. ANDERSON: Objection; form, beyond the 19 MS. ANDERSON: Objection; form. 19 scope. 20 BY MS. HURST: 20 THE WITNESS: Like I said, I don't -- I 21 Q So don't limit your answer to anything. 21 don't remember what the Android SDK agreement says, 22 MS. ANDERSON: Objection; form. 22 so it's hard for me to answer these questions 23 THE WITNESS: Well, the thing about the --23 without knowing what the agreement actually says --24 I think I'm on record in various publications for 24 BY MS. HURST:

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25

Q Well --

25 saying this as well, but the thing with the term

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- 1 A -- in its entirety in context.
- 2 Q I'm just asking: As you sit here now, can
- 3 you tell me what plan or strategy Google was
- 4 pursuing by including in its Android SDK agreement a
- 5 prohibition on developers taking any action that may
- 6 cause or result in the fragmentation of Android?
- 7 MS. ANDERSON: Same objections.
- 8 THE WITNESS: Well, I wasn't -- if an
- 9 Android SDK agreement exists, I wasn't involved in
- 10 the creation of it, so I would -- I would at this
- 11 point -- if you're asking me to speculate or sort of
- 12 guess, I guess I could do that. I'd prefer not to.
- 13 BY MS. HURST:
- 14 Q Tell me anything that you can tell me
- 15 about what plan or strategy Google was pursuing by
- 16 including in its Android SDK agreement a prohibition
- 17 on developers taking any action that may cause or
- 18 result in the fragmentation of Android.
- 19 MS. ANDERSON: Objection; form, beyond the 20 scope.
- 21 THE WITNESS: As I said, I don't know what
- 22 the Android SDK says about fragmentation, if it even
- 23 says anything about it. So it's hard for me to
- 24 comment on that.
- 25

#### 1 well.

- 2 BY MS. HURST:
- Q Why bother having an agreement, then? Why
- 4 not just give it away? It's all for free. It's
- 5 just for the benefit of consumers. You're not
- 6 planning to make any money on it. Why even have an
- 7 agreement, Mr. Lockheimer?
  - MS. ANDERSON: Objection; form and it's
- 9 beyond the scope.
- 10 THE WITNESS: Again, without seeing the
- 11 agreement, it's hard for me to talk about it in the
- 12 abstract.

8

- 13 BY MS. HURST:
- 14 Q You have no idea whatsoever, as you sit
- 15 here right now, what role the Android SDK agreement
- 16 plays in your strategies or plans for Android; is
- 17 that right?
- 18 MS. ANDERSON: Same objections.
- 19 THE WITNESS: No. What I was saying was
- 20 with regard to -- you were talking about
- 21 fragmentation. With regard to fragmentation and the
- 22 Android SDK agreement, I don't know.
- Now, if your question is, why does the
- 24 Android SDK agreement exist at all, I can take a
- 25 stab at that.

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#### 1 BY MS. HURST:

- 2 Q So there's nothing at all that you can
- 3 tell me about that?
- 4 MS. ANDERSON: Same objections.
- 5 THE WITNESS: I was not involved in the
- 6 creation of the Android SDK agreement, if such a
- 7 thing exists, so I don't know what was thought of
- 8 when they created it, whoever created it.
- 9 BY MS. HURST:
- 10 Q You understand, again, you're here to
- 11 testify on behalf of Google, not just the things
- 12 that you personally have been involved in, right?
- 13 A Yes, I understand.
- 14 Q And would you agree that the agreements
- 15 for the Android SDK are an important part of your
- 16 plans for that product?
- 17 MS. ANDERSON: Objection; form.
- 18 THE WITNESS: I'm not sure. I mean, there
- 19 are many aspects of Android. As I mentioned
- 20 earlier, I've worked on Android for nine and a half
- 21 years, and it's not something I've had to deal with
- 22 extensively, so I guess by that definition, maybe
- 23 you could argue it's not the most important thing.
- 24 I'm not saying it's not important, but there's
- 25 certainly a lot of other things that I deal with as

- 1 BY MS. HURST:
  - 2 Q Well, my question was: Would you agree
  - 3 that the agreements for the Android SDK are an
- 4 important part of your plans for Android?
- 5 MS. ANDERSON: There's no question
- 6 pending.
- 7 THE WITNESS: Sorry, I'm waiting for your
- 8 question.
- 9 BY MS. HURST:
- 10 Q That is my question. That's my question.
- 11 A Say that again.
- 12 Q Are the agreements for the Android SDK an
- 13 important part of your plans for Android?
- 14 MS. ANDERSON: Objection; form.
- 15 BY MS. HURST:
- 16 O "Yes" or "no"?
  - MS. ANDERSON: Objection; form.
- 18 THE WITNESS: The agreement exists, I
- 19 assume, for a reason, but it's not -- if you're
- 20 asking if it's the most important thing for the
- 21 Android strategy, I would disagree with that
- 22 characterization.
- 23 BY MS. HURST:
- 24 Q Just is it your recollection that I said,
- 25 is it the most important thing?

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1	A I'm having a tough time understanding	l .	perspective, the amount of time that they spend
	your question so	1	thinking about the SDK agreement is probably
3	MS. HURST: Why don't we have the court		de minimus. The amount of time they actually work
	reporter read it back this time.		on the SDK to build applications dominates, right?
5	THE WITNESS: Sure.	5	So this is why I don't know how to
6	MS. HURST: Maybe that will help.		characterize whether it's important or not.
7	(Record read as follows:	7	Q I'm just the question is: Is it an
8	"Q Are the agreements for the		important part of your plan for Android? Not is it
9	Android SDK an important part of	l .	an important part of the way the customer sees it,
10	your plans for Android?")		not is it an important part of the relationship.
11	THE WITNESS: I think the agreements for	11	This is the question: Is it is the SDK
1	the Android SDK or agreement I think there's	l .	agreement an important part of your plan, that is,
	only one is a part of how we work with developers		you, Google's plan for Android? I'm not asking you
	on Android. There are many other aspects of how we		to speak on behalf of the end user, I'm not asking
1	work with developers, including providing them with	1	you to speak on behalf of Samsung. Just asking you
	an SDK to begin with, providing them with an		to speak on behalf of Google.
	ecosystem of devices that they can run their	17	Is the Android SDK agreement yes, no or
	applications on so that they can make a living.		I don't know an important part of your plan for
1	Selling applications is another thing that we do		Android?
	with them, so there's many things that we do with	20	MS. ANDERSON: Objection; form.
1	developers, not just the the an agreement.	21	THE WITNESS: Working with developers is
	BY MS. HURST:		an important part of Android. I don't know how to
23	Q I'm just wondering, did you hear me ask		characterize the SDK agreement specifically in
	about the other things, or did I ask about the		isolation.
25	Android SDK agreement?	25	B 440
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	MG ANDEDGON OL' ' C	1	DV MC HIDOT.
1	MS. ANDERSON: Objection; form.	1	BY MS. HURST:
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	THE WITNESS: You asked me about a lot of	2	Q Well, it's the agreement that defines, at
2	· · · · · · · · · · · · · · · · · · ·	2 3	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship
2 3 4	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused	2 3	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?
2 3 4 5	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.	2 3	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.
2 3 4 5	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at. BY MS. HURST:	2 3 4	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a
2 3 4 5 6 7	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.	2 3 4 5 6 7	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal
2 3 4 5 6 7 8	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.	2 3 4 5 6 7 8	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not,
2 3 4 5 6 7 8 9	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.  Is the agreement for the Android SDK an	2 3 4 5 6 7 8 9	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not, I don't know. But I would say in practical terms
2 3 4 5 6 7 8 9	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.  Is the agreement for the Android SDK an important part of your plan for Android?	2 3 4 5 6 7 8 9	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not, I don't know. But I would say in practical terms for a developer relationship, which is what you're
2 3 4 5 6 7 8 9 10	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.  Is the agreement for the Android SDK an important part of your plan for Android?  A I really don't know how to answer that	2 3 4 5 6 7 8 9	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not, I don't know. But I would say in practical terms for a developer relationship, which is what you're asking about, it's really about how they build
2 3 4 5 6 7 8 9 10	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.  Is the agreement for the Android SDK an important part of your plan for Android?	2 3 4 5 6 7 8 9 10	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not, I don't know. But I would say in practical terms for a developer relationship, which is what you're asking about, it's really about how they build
2 3 4 5 6 7 8 9 10 11 12	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.  Is the agreement for the Android SDK an important part of your plan for Android?  A I really don't know how to answer that	2 3 4 5 6 7 8 9 10 11 12	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not, I don't know. But I would say in practical terms for a developer relationship, which is what you're asking about, it's really about how they build applications for the Android platform. It's really not about an agreement.
2 3 4 5 6 7 8 9 10 11 12 13	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.  Is the agreement for the Android SDK an important part of your plan for Android?  A I really don't know how to answer that because, as I mentioned, there are many things that	2 3 4 5 6 7 8 9 10 11 12	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not, I don't know. But I would say in practical terms for a developer relationship, which is what you're asking about, it's really about how they build applications for the Android platform. It's really
2 3 4 5 6 7 8 9 10 11 12 13 14	THE WITNESS: You asked me about a lot of things, including the SDK agreement as well as fragmentation, so this why I'm a little bit confused as to what you're getting at.  BY MS. HURST:  Q Let me just repeat the question again.  There's just this one question now pending.  Is the agreement for the Android SDK an important part of your plan for Android?  A I really don't know how to answer that because, as I mentioned, there are many things that we do with developers. "Important" would imply a	2 3 4 5 6 7 8 9 10 11 12 13 14	Q Well, it's the agreement that defines, at least in part, the legal terms of your relationship with those those entities, right?  MS. ANDERSON: Objection; form.  THE WITNESS: As you know, I'm not a lawyer so I don't know how you know, the legal terms, if that has a specific meaning to you or not, I don't know. But I would say in practical terms for a developer relationship, which is what you're asking about, it's really about how they build applications for the Android platform. It's really not about an agreement.
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# Case 3:10-cv-03561-WHA Document 2131-2 Filed 04/20/17 Page 39 of 153 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

1 THE WITNESS: That's absolutely not what I	1 not take any actions that may cause
2 said. You said, do I not care about what's in the	2 or result in the fragmentation of
3 Android SDK; that's categorically untrue. I care a	3 Android, including, but not limited
4 lot about what's in the Android SDK.	4 to, distributing, participating in
5 BY MS. HURST:	5 the creation of or promoting in any
6 Q Because it's important, isn't it?	6 way a software development kit
7 A The Android SDK. You're asking about the	7 derived from the SDK."
8 Android SDK agreement. The Android SDK is	8 BY MS. HURST:
9 absolutely very important for developers so that	9 Q Does it strike you that that's an
10 they can do their job to build applications for	10 anti-fragmentation provision?
11 Q Pardon me.	11 MS. ANDERSON: Objection; form, beyond the
In your nine years of working on Android	12 scope.
13 in your role as the Senior Vice President for	13 THE WITNESS: Well, if if you are
14 Android, you don't care what's in the Android SDK	14 saying "anti-fragmentation" is a specific term,
1	
15 terms and conditions; is that true?  16 MS. ANDERSON: Objection; form.	15 well, that term doesn't appear here, but I take it
3 ,	16 for, you know, literally what it says.
17 THE WITNESS: That's not true. I wouldn't	17 It says:
18 say I don't care. I would say that there are many	18 "You agree that you will not
19 other people within the organization who think about	19 take any actions that may cause or
20 this, and and I trust them to do their jobs well	20 result in the fragmentation of
21 to to make sure that it's appropriately done.	21 Android, including, but not limited
22 BY MS. HURST:	to, distributing, participating in
23 Q And do you think they would say it was an	23 the creation of or promoting in any
24 important part of your plan for Android, since you	24 way a software development kit
25 can't tell me?	derived from the SDK."
Page 150	Page 152
1 MS. ANDERSON: Objection; form.	1 I just take it at face value for what it
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#### HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY 1 BY MS. HURST: 1 what they're building is, quote, compatible and Q I'm talking about whatever Google meant 2 consistent across all brands. 3 when it put out an agreement for all of its So the way we accomplish that is through 4 developers that said you will not take an action 4 a couple of mechanisms, at least a couple of 5 resulting in the fragmentation of Android, whatever 5 mechanisms. One of them is the CDD or the 6 Google meant --6 compatibility definition document. Now, that's a 7 MS. ANDERSON: Objection; form. 7 document that manufacturers consult when they're 8 designing a device or when they're specifying a 8 BY MS. HURST: Q -- who you are here to testify on behalf 9 device; when they're deciding what to build, they 10 of today. 10 consult this document, the compatibility 11 definition document, to decide what the 11 MS. ANDERSON: Objection; form. 12 BY MS. HURST: 12 capabilities of that device should be in order to Q Has Google ever had a strategy or plan for 13 be compatible with Android. Things like how big 14 avoiding fragmentation of Android? 14 can a screen be, how many pixels can the screen MS. ANDERSON: Objection; form. 15 have, what sort of sensors should be on this 15 THE WITNESS: Well, if -- if by 16 16 phone, and so on. It's all written and publicly 17 "fragmentation" we're talking about -- let's look at 17 available. 18 18 it from the user's perspective, because that's --And so the first step is for a 19 that's again, the going -- common theme here. What 19 manufacturer to decide that they want to build a 20 we think about is often driven by doing the right 20 compatible device. When they decide that they 21 thing for the customer, the end user. 21 want to build a compatible device, they consult 22 22 the CDD, compatibility definition document, to So as an end user, if you -- let's say you 23 buy a Samsung phone and you download some 23 ensure that the device that they're about to build 24 applications from Google Play, and now, let's say, 24 complies with these requirements, and then once 25 you later switch to an HTC phone. Your expectation 25 they're sort of nearing the completion of this 1 would be that because both of these phones are 2 running Android, these applications would run. The 3 same applications that ran on your Samsung phone 3 is, in fact, compatible. 4 would run on your HTC phone. 4 5 If that weren't the case, that would be a 5 does is it's literally source code that we make 6 available to everyone for free, and the 6 problem for -- for end users. So from that 7 perspective, if you define that as fragmentation, 7 manufacturer downloads it, runs it on their device 8 that would be a bad thing, and that's certainly 8 that they're in the middle of development of 9 something that we strive to avoid. 9 before it's available to consumers or developers,

10 BY MS. HURST:

11 Q And why would that be a bad thing?

A For customers, I believe their 12

13 expectation is that when they buy an application or

14 download an application, whether it's free or, you

15 know, paid, that it works across all devices that

16 are Android. That's their expectation.

Q And what have you done to ensure that's

18 the case? What strategy or plan have you pursued to

19 ensure that's the case?

20 A Well, there's a number of things. There

21 are a number of things that we've done. Most of

22 this is on now the manufacturer's side. So when

23 the -- when the phone is being manufactured,

24 designed and developed, we need to make sure we

25 work closely with the manufacturer to ensure that

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1 device, they run a test suite called Compatibility 2 Test Suite, CTS, to ensure that what they've built

And what the Compatibility Test Suite

10 runs it on their device, and this test suite will

11 actually run through literally thousands of tests

12 on the device, making sure that all the APIs, for

13 instance, are compatible, all the -- the -- the

14 features are -- are built in a compatible manner,

15 and it gives a set of pass/fail results.

So when a manufacturer is trying to ship 16 17 their device, they run this CTS after they've

18 consulted with the CDD and built the device in

19 accordance with the CDD, they run the --

20 (Reporter clarification.)

21 THE WITNESS: Sorry. After they've

22 consulted the CDD and have built the device that

23 they believe is compatible, they now verify that

24 using the CTS by running these tests on the device.

25 They will get pass/fail results and, you know, when Page 157

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- 1 the device is passing, they know that they can ship
- 2 the device in a compatible form.
- 3 And so your question was, how do -- what
- 4 has Google done to ensure compatibility, or another
- 5 way of putting it is ensuring that there isn't this
- 6 form of incompatibility or fragmentation, and those
- 7 are two examples of what we've done.
- 8 BY MS. HURST:
- 9 Q And the two examples that you just
- 10 described of means that Google has used to avoid
- 11 fragmentation are the CDD and the CTS, correct?
- 12 A The two examples I just gave are, in
- 13 fact, the CTS and the CDD Compatibility Test Suite
- 14 and compatibility definition document, and those
- 15 are just two examples of what Google has done to
- 16 ensure that manufacturers can confidently build a
- 17 device that is compatible with the Android
- 18 ecosystem.
- 19 Q What other strategies have you pursued to
- 20 ensure that manufacturers can confidently build a
- 21 device compatible with the Android ecosystem?
- 22 A We have -- a lot of this comes down to
- 23 education also, so we've written a lot of
- 24 documentation about this. I guess you could say
- 25 the CDD is a form of documentation. It describes
  Page 158

- 1 that we -- we sign with the manufacturers.
- 2 Q And do these anti-fragmentation agreements
- 3 require anything of the manufacturers?
- 4 MS. ANDERSON: Objection; form.
- 5 THE WITNESS: Well, the anti-fragmentation
- 6 agreements are entirely voluntary. So a
- 7 manufacturer decides that they want to build
- 8 compatible Android devices. So when you say
- 9 requires of them, I mean, they are -- they are
- 10 seeking information from us on how to build
- 11 compatible applications, and so we highlight to them
- 12 how they do it and what their obligations are in
- 13 doing so.
- 14 BY MS. HURST:
- 15 Q What are the obligations of the
- 16 anti-fragmentation agreement that are on the
- 17 manufacturers?
- MS. ANDERSON: Objection; form, beyond the
- 19 scope.
- THE WITNESS: One of the obligations, and
- 21 this is mutual -- mutually desired outcome, because,
- 22 again, they've decided that they want to build these
- 23 compatible devices, is that they won't, in fact,
- 24 quote, fragment the Android API set.
- 25

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- 1 what's compatible and what's not.
- 2 But we also have a team of
- 3 partner/engineers who -- one of their jobs is to
- 4 make sure that they discuss compatibility with the
- 5 partners that they're responsible for. So they
- 6 will go out there and visit the partners or the
- 7 partners will visit us typically in the early8 stages of the relationship is when this education
- 9 happens.
- 10 Obviously if the manufacturer has been
- 11 building compatible Android devices for a while,
- 12 they don't need to be re-educated on this, but in
- 13 the early days of a relationship, this is the kind
- 14 of education we go through, and so I would say in
- 15 the early days of Android, 2008, 2007, 2009,
- 16 that's when a lot of those conversations were
- 17 happening.
- 18 At this point, most -- most
- 19 manufacturers know how -- how the process works.
- 20 Q Any other strategies that you've pursued
- 21 to avoid fragmentation within the Android ecosystem?
- 22 A Well, we have an agreement with
- 23 manufacturers known as the anti-fragmentation
- 24 agreement, or AFA for short, that also describes
- 25 basically what we talked about, in a short document

- 1 BY MS. HURST:
  - Q But it's true, right, that since Android
- 3 is an open source project, people can take it and
- 4 fragment it?
- 5 MS. ANDERSON: Objection; form.
- 6 THE WITNESS: People can certainly, given
- 7 how we've released Android in open source form with
- 8 Apache 2.0 license, or vast majority of Android is
- 9 Apache 2.0, they are able to take the source code
- 10 and do whatever they want with it.
- Now, there are -- it's a choice that the
- 12 manufacturers make, basically. Do they want a free
- 13 operating system and just use it to do whatever they
- 14 want with it? Do they want a free operating system
- 15 that they can customize, but they -- they want to
- 16 participate in the Google Play ecosystem and have
- 17 applications? In which case, they, you know, do
- 18 what I described earlier about the -- with regard to
- 19 the CDD and the CTS to go through the compatibility.
- 20 And so manufacturers really have a choice on what
- 21 type of device they want to make, and how they want
- 22 to use the OS will determine sort of what -- what
- 23 they are able to do with it.
- 24 BY MS. HURST:
- 25 Q And how many of the manufacturers choose

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- 1 to participate in the ecosystem versus simply taking
- 2 a free source code and operating system and doing
- 3 whatever they want with it?
- 4 MS. ANDERSON: Objection; form, beyond the
- 5 scope.
- 6 THE WITNESS: Well, the free, do whatever
- 7 you want with it mode, they're under no obligation
- 8 to tell us, so we have no idea how many people are
- 9 doing that. So it's hard to know what that number 10 is.
- 11 In terms of how many people have signed,
- 12 for instance, AFA or have gone through CTS, that's
- 13 certainly something that is known to us. I don't,
- 14 off the top of my head, happen to know that number,
- 15 but if I were to estimate, it's -- you know, it's in
- 16 the dozens or low 100s.
- 17 BY MS. HURST:
- Q Well, you've certainly heard of people
- 19 forking Android?
- 20 A I've heard of that phrase, similar to
- 21 fragmentation term. "Forking" means a lot of
- 22 things to a lot of different people, so it
- 23 really -- every time I hear that term, it always
- 24 makes me wonder what do they actually mean when
- 25 they say that.

1

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- 1 BY MS. HURST:
- 2 Q And is it true that you have, as a
- 3 strategy at Google, created a series of incentives
- 4 designed to try to avoid others from doing something
- 5 similar to what Amazon has done?
- MS. ANDERSON: Objection; form.
- 7 THE WITNESS: I think the -- the incentive
- 8 that exists for a device manufacturer is really up
- 9 to them to decide whether it's an incentive or not,
- 10 right? And the way incentives work is the person
- 11 who's on the other side of it has to agree that
- 12 there's value for them to do whatever it is.
- 13 So -- so in the case of Android
- 14 manufacturers -- let's take, again, Samsung as an
- 15 example -- they decided that Samsung, HTC, LG,
- 16 Motorola, for example, or Huawei, these
- 17 manufacturers have all decided that they want to
- 18 have a thriving ecosystem of applications that are
- 19 compatible so that they don't have to go build an
- 20 app ecosystem on their own.
- 21 Building an app ecosystem is -- is pretty
- 22 costly and time -- time intensive, and it's just a
- 23 lot of work to go build that, because you have to go
- 24 work with literally hundreds of thousands, if not
- 25 millions, of application developers to convince them

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- Q Well, in this case, we mean building an
- 2 incompatible version of Android.
- 3 Do you understand that?
- 4 A So when you say an incompatible version
- 5 of Android, do you mean a manufacturer that hasn't
- 6 gone through CDD and CTS, or do you mean a 7 manufacturer who's just doing whatever they want
- 8 with no intention of having applications, for
- 9 instance, on their device?
- Q Well, either. Have you heard of anybody
- 11 doing either of those things?
- 12 A Yes, I have.
- 13 O Okay.
- 14 Is Amazon one of the parties that you've
- 15 heard of doing that?
- 16 MS. ANDERSON: Objection; form, beyond the
- 17 scope.
- 18 THE WITNESS: I have heard Amazon has
- 19 publicly in their documentation, for instance -- and
- 20 I think marketing even have mentioned that their
- 21 devices are based on the Android source code, but to
- 22 the best of my knowledge, their devices -- and I'm
- 23 talking about the Kindle devices now specifically --
- 24 have not gone through CTS or CDD officially. 25

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- 1 to write software for your platform.
- 2 And one of the benefits of Android was we
- 3 pooled all the manufacturers together through their 4 common interest -- this was their desire to work
- 5 together -- so that there's a common pool of devices
- 6 across multiple different manufacturers that all ran
- 7 the same set of applications. And that, we thought,
- 8 collectively, would make it easier to convince
- 9 application developers to invest their energies in
- 10 building applications for that platform.
- 11 BY MS. HURST:
- 12 Q So in your view, having this thriving
- 13 ecosystem of applications is an important part of
- 14 maintaining compatibility across Android?
- 15 MS. ANDERSON: Objection; form, beyond the
- 16 scope.
- THE WITNESS: I would say one of -- one of 17
- 18 the purposes of compatibility is to ensure that
- 19 there can be a thriving ecosystem of applications
- 20 that -- that crosses OEM boundaries.
- 21 BY MS. HURST:
- Q And when you say that's a virtuous cycle,
- 23 when you have the applications, you can attract the
- 24 manufacturers, and when the manufacturers agree to

25 compatibility, then you can attract the developers,

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1 and it all feeds on each other in a way that is 1 BY MS. HURST: 2 mutually reinforcing? 2 Q Did Google copy the Java compatibility 3 testing kit in any way in creating its CTS? 3 MS. ANDERSON: Objection; form, beyond the MS. ANDERSON: Objection; form, beyond the 4 scope. THE WITNESS: I don't know if it's 5 scope. 5 6 mutually enforcing, but it's certainly from an --6 THE WITNESS: I don't know. I didn't even 7 you know, if you look at it from every constituent's 7 know what you're describing, so it's hard for me to 8 desires, I think as a manufacturer you want to build 8 know whether it was copied or not. 9 BY MS. HURST: 9 devices that can be highly differentiated so that 10 your device doesn't look exactly like another Q And is the CTS designed in any way to 11 manufacturer's device. 11 certify compatibility with the Java platform? MS. ANDERSON: Objection; beyond the 12 So you want to be able to create a highly 12 13 differentiated device but at the same time, being 13 scope, form. 14 able to run the full set of applications that the 14 THE WITNESS: The CTS was designed to 15 ecosystem is able to provide. That's a 15 ensure that manufacturers are able to -- when used 16 manufacturer's -- that's one of the manufacturer's 16 in conjunction with the CDD, to build devices that 17 incentives. 17 can participate fully with the Android app 18 From an end user, you want to have choice; 18 ecosystem. 19 you know, you want to be able to choose different 19 BY MS. HURST: Q Was Google CTS designed in any way to 20 kinds of devices from different manufacturers at 20 21 different price points, different colors, different 21 certify compatibility with any Java platform? 22 designs, different capabilities but not have to, 22 MS. ANDERSON: Objection; form, beyond the 23 when they make that choice, decide whether they want 23 scope. 24 applications or not. They always want applications, 24 THE WITNESS: Not to my knowledge. The 25 but they also want to have device diversity. It's 25 goal of the CTS was to ensure compatibility with the Page 166 Page 168 1 really how these incentives are aligning, and, 1 Android app ecosystem. 2 sorry --2 BY MS. HURST: 3 Q And, in fact, if a manufacturer passes the And for the application developer, the 4 incentive is they want the biggest bang for their 4 CTS, that in no way would ensure compatibility with 5 buck. So if they write an application for a 5 the Java platform, true? 6 particular platform, they want the biggest reach, 6 MS. ANDERSON: Objection; beyond the 7 right? They want to be able to maximize their 7 scope. 8 investment in that platform. So the more devices 8 THE WITNESS: Sorry, say that again. If a 9 there are that are compatible with that platform, 9 manufacturer --10 the better for application developers. 10 BY MS. HURST: 11 BY MS. HURST: 11 Q Passes Google's CTS for Android, its 12 Q Now, you at Google wrote your own CTS, 12 Compatibility Test Suite, that would in no way 13 right? 13 ensure compatibility with the Java platform, true? 14 MS. ANDERSON: Objection; form. 14 MS. ANDERSON: Objection; form, beyond the THE WITNESS: Correct. We -- we provide 15 scope. 16 the CTS, but the CTS itself is also open source. So 16 THE WITNESS: The CTS that I'm referring 17 we accept contributions, modifications, ideas and so 17 to was developed to ensure compatibility with the 18 on from the outside as well. 18 Android platform and no other platform. 19 BY MS. HURST: 19 BY MS. HURST: 20 Q Are you aware that there's a Java 20 Q You said there were -- I don't want to 21 compatibility testing kit? 21 misstate it -- dozens of anti-fragmentation MS. ANDERSON: Objection; form, beyond the 22 agreements with manufacturers? 23 scope. 23 MS. ANDERSON: Beyond the scope. 24 THE WITNESS: I believe so. I mean, 24 THE WITNESS: I'm not sure. 25 25 basically comes down to how many partners are Page 167 Page 169

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- 1 building compatible devices. And I believe -- I'm 2 guessing now, but it's on the order of -- or 3 approximating, it's on the order of dozens. 4 BY MS. HURST:
- Q And all of those manufacturers, you 6 entered into anti-fragmentation agreements with them
- 7 as part of your plan or strategy to ensure the
- 8 healthiest possible Android ecosystem, true?
- 9 MS. ANDERSON: Objection; form.
- 10 THE WITNESS: The reason why we entered --
- 11 I'm just clarifying your question. The reason
- 12 why -- you're saying the reason why we entered into
- 13 these agreements with the manufacturers is to ensure
- 14 a healthy Android ecosystem?
- 15 BY MS. HURST:
- 16 Q Yes.
- 17 A Well, in the way that I described a few
- 18 minutes ago, the -- the purpose of compatibility
- 19 from an Android platform perspective is to make
- 20 sure that manufacturers are able to get what they
- 21 want, which is to be able to build highly
- 22 differentiable -- differentiatable [sic] products,
- 23 but at the same time maintaining consistency and
- 24 compatibility with other manufacturers' devices
- 25 such that applications that are built for one will Page 170

- 2 about Android One earlier, if you look at an
- 3 Android One device, you know, it doesn't have curved

Now, if you look at -- since you asked

- 4 glass, the cameras are good but not as good as the
- 5 Samsung ones. It doesn't come with the TouchWiz
- 6 user interface. Comes with slightly different user
- 7 interface and completely different price point.
- 8 These two devices are both running Android, and
- 9 they've both been built in consultation with the CDD 10 and passing CTS.
- 11 So one -- I would say one of the main ways
- 12 in which we ensured differentiation while
- 13 maintaining compatibility was a combination of open
- 14 sourcing the operating system so that manufacturers
- 15 could look at the source code and, in fact, modify
- 16 the source code while still feeling confident that
- 17 they're still compatible by making sure they run CTS
- 18 to validate their work.
- 19 BY MS. HURST:
- 20 Q Do they share those source code
- 21 modifications with you?
- 22 A Sometimes but not always.
- 23 Q Is it one of your strategies or plans to
- 24 require them to share those source code
- 25 modifications with you?

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- 1 work on the other.
- Q Well, you've -- you've emphasized several
- 3 times the highly differentiating devices. If
- 4 they're all using the same software platform, then
- 5 how can they differentiate?
- 6 MS. ANDERSON: Objection; form, beyond the 7 scope.
- 8 THE WITNESS: It's a good question and
- 9 something we spend a lot of time thinking about. I
- 10 think our theory was -- and it's sort of proved out
- 11 to be true, but in the early days, our theory was
- 12 that no manufacturer would want to build devices
- 13 that can't be differentiated from their competitors.
- 14 Every manufacturer wants to be different and have a
- 15 unique capability or unique price point or unique
- 16 whatever it is that they're going after.
- 17 So, for instance, if you look at the
- 18 latest Android phones -- let's use Samsung as an
- 19 example -- the Galaxy S6 Edge, beautiful device that
- 20 has curved glass on the front and back, or, I think,
- 21 maybe just the front, actually, an amazing camera
- 22 and, you know, has a certain user interface, which
- 23 Samsung calls TouchWiz. It's all running Android,
- 24 though, but that's like the -- the latest Samsung
- 25 flagship device.

- 1 A No. Actually one of the reasons why we
- 2 chose Apache 2.0 was that they didn't have to.
- 3 They were under no obligation for those -- that
- 4 portion of the code that's under Apache 2.0, that
- 5 they don't have to share it with us. This is one
- 6 of their differentiations. It's their secret 7 sauce, if you will. So we wanted to ensure that
- 8 they felt confident that they could do that.
- Q So it was your strategy, in part, to use
- 10 Apache 2.0 so that they -- the manufacturers could
- 11 keep secret sauce, right?
- 12 MS. ANDERSON: Objection; form, beyond the
- 13 scope.
- THE WITNESS: For the portions of Android 14
- 15 that make sense for them to modify and create
- 16 differentiated products, we felt like Apache 2.0 was
- 17 an appropriate license, but there are certainly
- 18 other parts of the Android code base, for instance,
- 19 the Linux kernel, which is under GPL, and, of
- 20 course, you know, manufacturers have to abide by the
- 21 appropriate licenses for each part of the code.
- 22 BY MS. HURST:
- Q Now, have you explained to the
- 24 manufacturers your plan to put all of Android under
- 25 GPL?

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1 MS. ANDERSON: Objection; form, beyond the 1 would you think it's a good idea? 2 scope. 2 BY MS. HURST: 3 THE WITNESS: I didn't know we had such a Q Well, especially in connection with 4 plan. 4 Android One where you're trying to get, you know, 5 BY MS. HURST: 5 widespread adoption on a lower cost basis, wouldn't Q Is it true that Google has a plan to put 6 GPL allow you to harness the efforts of the 7 Android N under some form of the GPL license? 7 developer community on a worldwide basis in a way MS. ANDERSON: Objection; form. 8 that is more beneficial than the Apache 2.0 license? 8 9 THE WITNESS: Is our plan to put Android N MS. ANDERSON: Objection; form, beyond the 10 under GPL? N, in its totality, like all of N? 10 scope. 11 BY MS. HURST: 11 THE WITNESS: I think the question you 12 Q Yes. 12 just stated, there are a lot of assumptions in there 13 A Not to my knowledge, no. 13 that are incorrect. So I'm worried that we're not 14 Q Is it your plan at Google to put any part 14 actually talking about the same thing. 15 of N that is not currently under the GPL, such as 15 I'm not sure how Android One has anything 16 the Linux kernel --16 to do with GPL, first of all. 17 MS. ANDERSON: Objection; form. 17 The second point I would make is I'm not 18 MS. HURST: I'm not finished yet, please, 18 sure how GPL or Apache impacts application 19 Ms. Anderson. I'll start over. 19 developers, so there's sort of leaps of logic there, 20 MS. ANDERSON: Ms. Hurst, you paused. I 20 at least from my perspective, that I'm sort of 21 inserted an objection. I have been very respectful 21 failing to understand your question. 22 of your questions today. You don't need to be 22 BY MS. HURST: 23 impolite to me. 23 Q All right. MS. HURST: I'm not being impolite to you. 24 So it's not --25 25 I'm asking you not to interrupt me. In your view, the form of license on the Page 174 Page 176 1 MS. ANDERSON: I didn't interrupt you at 1 platform itself is not important to developers? 2 all. 2 MS. ANDERSON: Objection; form. 3 Could you either reread the question, THE WITNESS: So -- so we're not talking 4 court reporter, or you can restart. 4 about Android One anymore, just to clarify? 5 (Record read as follows: 5 BY MS. HURST: 6 "Q Is it your plan at Google Q Well, I'm just trying to understand your 7 to put any part" --) 7 answer. I'm not -- I'm talking about whatever MS. HURST: I'm sorry, I'm going to 8 8 you're talking about. 9 restate the question. Given the interruption, I've A I didn't have an answer. I was trying to 10 lost my train of thought, irrespective of how the 10 clarify your question because I didn't understand 11 witness is feeling. 11 your question. 12 BY MS. HURST: 12 Q All right. Q Is it your plan at Google to put any part Well, I'm asking you: Don't you think it 14 of the N, as in Nancy, release of Android under the 14 would be at this point a good strategy for Google to 15 GPL that is not already under the GPL? 15 put Android -- the rest of Android open source under MS. ANDERSON: Objection; form. 16 16 GPL? 17 THE WITNESS: Not that I'm aware of. 17 MS. ANDERSON: Objection; form. 18 BY MS. HURST: 18 BY MS. HURST: 19 Q All right. Q Wouldn't that signal a commitment to 20 And have you --20 the -- full commitment to the open source community, I mean, wouldn't it be a good strategy to 21 for example? 22 go ahead and do that at this point? MS. ANDERSON: Objection; form, beyond the 22 23 MS. ANDERSON: Objection; form. 23 scope. THE WITNESS: I'm not sure. I haven't 24 24 THE WITNESS: I haven't thought about this 25 really put much thought into GPL recently. Why 25 topic, specifically GPL or Apache, I haven't thought Page 175 Page 177

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- 1 about it in -- in a while, and actually I didn't
- 2 know that anyone was questioning our commitment to
- 3 the open source community. I think, in fact, if
- 4 anything, we have a very strong sort of community,
- 5 you know, one of the biggest distributions of open
- 6 source code in the form of Android, so I didn't know
- 7 that that was something that needed to be addressed.
- 8 BY MS. HURST:
- 9 Q Well, wouldn't it be beneficial if you put
- 10 it under the GPL in order to more effectively share
- 11 all of the improvements that you've made over time?
- MS. ANDERSON: Objection; form, beyond the
- 13 scope.
- 14 THE WITNESS: The source code is the
- 15 source code, whether it's Apache or GPU. The source
- 16 code that's disclosed is exactly the same. So I
- 17 don't think in terms of the information that's being
- 18 made available for further improvements materially,
- 19 if at all, changes based on what the license of the
- 20 source code is. Again, this is not a topic I've --
- 21 I've thought about or has been a topic at Google
- 22 that I'm aware of. So -- yeah.
- 23 BY MS. HURST:
- 24 Q Well, part of what you've done over the
- 25 years of the Android open source project is improve

- 1 it's not something I've thought about. Android
- 2 itself, as I've mentioned, is open source with
- 3 different licenses based on different parts of the
- 4 code; for instance, the Linux kernel is GPL, but the
- 5 Android framework, for example, is Apache 2.0. The
- 6 net result is for the community, for the open source
- 7 community, and the manufacturing community or the
- 8 community at large, they benefit from this, and I
- 9 don't know if the community is, in particular, sort
- a don't mile with the community is, in particular, soil
- 10 of -- I can't think of an example where someone has
- 11 asked us to GPL all of Android. Just hasn't come
- 12 up, to my knowledge.
- 13 BY MS. HURST:
- 14 Q To your knowledge, has anybody expressed
- 15 an objection to you to GPL'ing all of Android?
- MS. ANDERSON: Objection; form, beyond the
- 17 scope.

24

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- 18 THE WITNESS: I don't know.
- 19 BY MS. HURST:
- 20 Q Do you think it would impair the ability
- 21 of your manufacturers to keep their secret sauce if
- 22 you put Android under GPL?
- 23 MS. ANDERSON: Same objection.
  - THE WITNESS: I don't know. I'm not
- 25 knowledgeable enough about the details of these

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- 1 on the Java APIs that are included in Android, true?
- 2 MS. ANDERSON: One second, please.
- 3 Objection; form, beyond the scope.
- 4 THE WITNESS: I don't know.
- 5 BY MS. HURST:
- 6 Q Wouldn't it be beneficial to the Java
- 7 community if you gave back your improvements to the
- 8 Java packages and Android by putting it under GPL?
- 9 MS. ANDERSON: Objection; form, beyond the 10 scope.
- 11 THE WITNESS: I'm confused because I feel
- 12 like, on the one hand, you're talking about the Java
- 13 packages or the Java APIs, and on the other hand,
- 14 you're talking about GPL, and I'm trying to
- 15 understand how these two thing relate to each other
- 16 in the context that you're talking about; the
- 17 context being helping the community.
- 18 BY MS. HURST:
- 19 Q So in your view, the GPL would not be --
- 20 putting Android open source under the GPL would not
- 21 be of particular help to the Java community?
- 22 MS. ANDERSON: Objection; form, beyond the
- 23 scope.
- THE WITNESS: I actually don't know what I
- 25 think about this. I think, as I mentioned earlier,

- 1 licenses to -- to have an informed opinion on that.2 BY MS. HURST:
  - Q In your experience, though, there can
- 4 certainly be fear from manufacturers around GPL and
- 5 whether that might require them to share code
- 6 improvements that they like to use to differentiate
- 7 their devices?
- 8 MS. ANDERSON: Objection; form, beyond the
- 9 scope.
- 10 THE WITNESS: I don't know if I'm
- 11 answering your question, but I can't think of --
- 12 I've met many manufacturers or partners, in general.
- 13 I can't think of a case where they expressed
- 14 concerns over how Android is being open sourced. So
- 15 I take that as a signal that they're happy with the
- 16 current way of doing it. I have no way of knowing
- 17 if they would be unhappy with a different way of
- 18 doing it because we've never talked to them about --
- 19 at least that I'm aware of, of doing it in a
- 20 different way.
- 21 BY MS. HURST:
- 22 Q Is Google presently planning to put all or
- 23 any part of Android that is not currently under a
- 24 GPL license under a new GPL license of any form?
- 25 A I don't know.

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1 Q What is Project Enso? 1 have made was to not use it at all. 2 A Name rings a bell. I read about it 2 BY MS. HURST: 3 recently. I think it was an e-mail from someone on Q And you could have made a choice 4 my team, but I don't remember the details. 4 originally to release Android under GPL, right? Q Do you know anything at all about any 5 MS. ANDERSON: Objection; form, beyond the 6 strategy or plan for Android reflected in Project 6 scope. 7 Enso? THE WITNESS: Yeah, we could have made a A The e-mail said something about -- it was 8 8 lot of choices. We could have chosen not to open 9 a very brief e-mail. It said something about 9 source Android as well. I mean, everything was a 10 switching to -- I believe it's called OpenJDK, but 10 decision that was made. 11 that was about the extent of the e-mail. Said it 11 BY MS. HURST: 12 was a confidential e-mail. It was sent to a Q And if you were willing to open source 12 13 mailing list that I subscribe to called Android 13 Android, why not just put it out under the GPL and 14 Release, and it was a heads-up from one of the 14 keep it consistent with the Linux kernel? 15 engineering leaders that this change was going to MS. ANDERSON: Objection; form, beyond the 15 16 happen in the N release. 16 scope. 17 Q Do you have any understanding of what that 17 THE WITNESS: I don't know. 18 change means? 18 BY MS. HURST: 19 MS. ANDERSON: Objection; form. 19 Q So you said that it would --20 Also caution the witness to the extent 20 As with any code base, it would have to be 21 your understanding derives solely from counsel, I 21 a careful decision with the appropriate reviews. 22 instruct you not to answer on grounds of privilege. 22 Has there been the appropriate -- an 23 But otherwise, you may answer. 23 appropriate review and a careful decision made to 24 THE WITNESS: No. 24 put some additional part of Android under a GPL 25 25 license? Page 182 Page 184 1 MS. ANDERSON: Objection; form. 1 BY MS. HURST: 2 THE WITNESS: I don't know. Q Do you have any understanding at all of 3 BY MS. HURST: 3 the business implications of a plan for putting 4 part -- another part of Android under the GPL Q Did you review any interrogatory responses 5 license? 5 in your preparation to testify as a 30(b)(6) witness 6 MS. ANDERSON: Objection; form. 6 on strategies and plans for Android? 7 A What's an interrogatory response? THE WITNESS: The business implications of Q I think I can take that as a "no." 8 putting another part of Android that does GPL. 8 9 A I don't know if you can. I just don't 9 Well, I guess as with any code base, it's a decision 10 know that term. 10 that has to be made carefully, you know, with the 11 appropriate reviews to make sure that it makes 11 Q All right. 12 Did you review any documents at all in 12 sense, you know. 13 So, for instance, with the Linux kernel, 13 order to prepare yourself to testify here on behalf 14 of Google today? 14 we've made the determination that that was an 15 appropriate thing to do, and on a case-by-case 15 A As I was preparing --THE WITNESS: So is that a privilege? I 16 basis, we would need to make sure that that is the 16 17 appropriate thing to do to ensure the current way in 17 guess I have a question about privilege. 18 which Android operates isn't materially changed. 18 MS. ANDERSON: You may identify the 19 documents that were shown to you during your 19 BY MS. HURST: Q You didn't really have any choice about 20 preparation. 21 the Linux kernel, right? I mean, it came to you 21 THE WITNESS: Okay. I can think of two 22 under GPL, and you can't change that, right? 22 documents that I looked at. One was a list of 23 topics. I believe it's -- I don't know for sure 23 MS. ANDERSON: Objection; form, beyond the

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24 because I didn't look at the whole document, but I'm

25 assuming it's this one marked as Exhibit 5003. And

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24 scope.

THE WITNESS: Well, the choice we could

25

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1 then the other document that I looked at was this 1 of privilege. But otherwise, you may answer. 2 e-mail from the engineering lead that talks about 2 THE WITNESS: I believe the first time I 3 heard the phrase Enso or the code name Enso was that 3 Enso. 4 BY MS. HURST: 4 e-mail. Q Okay. 5 5 BY MS. HURST: And then when you looked at the e-mail, Q And the first time you saw that e-mail was 7 did you do anything to investigate it further? 7 yesterday? MS. ANDERSON: You may answer. A No. The first time I saw the e-mail 9 THE WITNESS: Yes. Aside from discussing 9 was -- I think it was last week. I was traveling 10 it briefly at the -- at the prep meaning --10 in London at the time, and I don't know if this MS. ANDERSON: Just caution the witness, 11 happens to you, but when I travel, I'm usually very 12 you don't want to disclose communications with 12 behind on e-mail. I was in London, so I was jet 13 lagged, so I just took a quick look but didn't 13 counsel, but you may answer other -- you know, 14 outside of communications with counsel, did you take 14 really read it in detail and figured I'll get to it 15 any other steps? 15 later. THE WITNESS: Oh, I see. Outside of 16 And then -- and then I saw it at the 17 counsel. No, I did not. 17 prep meeting. 18 BY MS. HURST: 18 Q So last week, the first week of December? Q Do you think that it would be okay for 19 A I think it was, yes. I'm not 100 percent 20 your team to decide to put some big chunk of Android 20 sure, but I saw it once very briefly before the 21 under GPL without consulting you first? 21 prep session, and then I saw it once at the prep 22 MS. ANDERSON: Objection; form. It's also 22 session, and that's it. 23 beyond the scope. 23 Q When you saw it the first time, what did THE WITNESS: Well, it's a pretty big team 24 you do? 25 now with a lot of decisions that are being made all 25 A Well, I was traveling in London. If I Page 186 1 the time. So I make an effort to not be involved in 1 remember correctly, I was traveling in London at 2 all decisions and be a bottleneck. So it's a good 2 the time. I was very behind on e-mail, I had a 3 question. You know, I don't -- I don't know. I 3 bunch of meetings, I was jet lagged, so I took a 4 haven't encountered that, so I don't know. 4 mental note to take a look at it later, and I never 5 BY MS. HURST: 5 got around to it until the prep session happened. Q Did you consult with Mr. Ghuloum in any Q Did you respond in any way to Mr. Ghuloum 7 way after reviewing this e-mail in your prep 7 when you first saw the e-mail about Project Enso? 8 session? 8 A No, I did not. 9 A I assume you're talking about Anwar? 9 Q Do you know what OpenJDK is? Q Did I mispronounce his last name? I don't 10 A I guess this becomes a privileged 10 11 know him. I wouldn't call him Anwar so... 11 question. A We usually refer to people with their 12 MS. ANDERSON: Okay. So I'm going to 13 first name, so I assume you're referring to Anwar 13 object as to form. To the extent your understanding 14 Ghuloum who is author of this e-mail about Enso, 14 is solely derived from communications with counsel, 15 but I'm referring to -- and if your question is, 15 I instruct you not to answer on grounds of 16 did I talk to him about this e-mail after this prep 16 privilege. If you have any independent knowledge 17 meeting or, in fact, even before this prep meeting, 17 aside from that, you may answer. 18 the answer is no. 18 THE WITNESS: Okay. I can't answer on the Q Have you ever heard of Project Enso before 19 grounds of privilege. 20 you looked at the e-mail in your prep session 20 BY MS. HURST: 21 yesterday? 21 Q So you have no independent understanding 22 MS. ANDERSON: Objection; form and, of 22 of what OpenJDK is, other than what you've learned

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MS. ANDERSON: You may answer "yes" or

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24

23 from counsel, correct?

25 "no" to that.

23 course, to the extent responding to the question

24 would require you to reveal communications with

25 counsel, I'd instruct you not to answer on grounds

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THE WITNESS: Correct. 1 phone, tablets, for Android at Work, wearables, 1 2 BY MS. HURST: 2 Chrome OS, Chromecast, Android Auto, Android TV and Q Do you have any knowledge of the license 3 Internet of Things -- sorry, madam reporter, that 4 terms associated with OpenJDK, other than what you 4 was a little fast -- do you have any other plans, 5 might have learned from counsel in a meeting 5 product roadmaps, strategies, functions, markets, 6 yesterday? 6 devices, goods or services planned to be associated 7 MS. ANDERSON: And same objections, same 7 with Android? 8 instruction. 8 MS. ANDERSON: Objection; form. 9 THE WITNESS: No. THE WITNESS: Not that I can think of, no. 10 That's a pretty exhaustive list. You mentioned TV, 10 BY MS. HURST: 11 Q So would it be fair to say, 11 Wear, Auto, obviously Android on phones and tablets 12 Mr. Lockheimer, that you personally have not made 12 and the Internet of Things, that's all Android 13 any evaluation of whether the license terms of 13 related. 14 OpenJDK would be a commercially acceptable means of 14 Chrome OS is not Android related, 15 Chromecast is not Android related, and I think 15 using the Java API, all or any part of it? MS. ANDERSON: Objection; form, beyond the 16 16 that's it. Those are my areas of responsibility. 17 BY MS. HURST: 17 scope. 18 THE WITNESS: You're saying me personally? 18 Q What is ARC Welder? 19 BY MS. HURST: 19 A ARC Welder, to the best of my Q Yeah. 20 20 knowledge -- my knowledge is not deep on this 21 A No, I've never reviewed OpenJDK's terms 21 topic, but ARC Welder is, I believe, a tool that 22 or OpenJDK, period. 22 developers use -- yeah, it's a tool for developers. 23 Q Okay. 23 Q To do what? A My understanding is ARC Welder -- and 24 And has anyone at Google, other than 24 25 lawyers, ever communicated to you as the head -- the 25 it's A-R-C, then, Welder. Developers use Page 190 Page 192 1 ARC Welder to make it possible to run their Android 1 Senior Vice President of Android that they have made 2 applications on -- within the app runtime for 2 an evaluation of the license terms of OpenJDK and 3 Chrome or ARC on Chrome OS. 3 concluded that they are a commercially acceptable 4 means of using the Java API packages, all or any Q So ARC stands for the app runtime for 5 Chrome? 5 portion of them? MS. ANDERSON: Objection; form, beyond the A Yeah. App runtime for Chrome OS, I 7 scope and, again, same privilege instruction. 7 guess, is more accurate. I'm sorry, I slipped on THE WITNESS: Yeah, I don't think I can 8 the first try, but it's app runtime for Chrome OS. Q ARC Welder is a way of making Android 9 answer that without breaking privilege. 10 applications run on a device that uses the Chrome 10 BY MS. HURST: Q Well, my question was other than lawyers. 11 operating system, true? A ARC Welder is a tool for selective 12 So if there's nobody other than lawyers, then the 12 13 answer is "nobody other than lawyers." 13 developers. Not all -- it's not -- to the best of MS. ANDERSON: And this is confusing. If 14 my knowledge, it's not available to all developers. 15 But for a select set of developers, we provide them 15 you have information, other than lawyers, you may 16 with ARC Welder so that they can take their 16 provide it; it's not privilege. But if it's 17 information solely derived from lawyers, you may 17 applications and run it within the ARC system on 18 indicate that in responding, that there's nothing 18 Chrome OS. 19 Q So what kind of devices use Chrome OS? 19 other than through lawyers. 20 THE WITNESS: Aside from that e-mail on 20 A There are a number of device categories: 21 Laptops, desktop computers, digital signage are 21 Enso that I received as part of being the Android 22 release mailing list, I don't know anything on this 22 examples of devices that run Chrome OS. Q So ARC Welder is a way of making Android 23 topic, aside from my dealings with the legal team. 24 BY MS. HURST: 24 applications run on laptops that use Chrome OS, 25 true? 25 Q Other than the use of Android platform in

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A To be very precise, some applications to 1 Android, if you take that and try to run it in ARC, 2 run on laptops running Chrome OS called 2 it won't run because ARC was built in such a way 3 Chromebooks, yes. 3 that doesn't support all of the things that 4 Q Are you limiting the type --4 Microsoft Word on Android needs, and so that's --In your answer, were you limiting the 5 that's basically the gist of what works versus what 6 types of applications, or were you limiting it to 7 the specific types of laptops? 7 BY MS. HURST: A Both. So limited -- it's not all Android Q Can you give me some applications that 9 applications. It's a subset, a vast subset, 9 will run on ARC? 10 meaning a very small subset of Android applications 10 MS. ANDERSON: Beyond the scope. 11 are eligible to run in ARC, and I'm just pointing 11 THE WITNESS: I remember when we announced 12 out that laptops running Chrome OS are also known 12 ARC -- this was a year, a year and a half ago --13 as Chromebooks. 13 they did a demo, I think, of Evernote, which is a Q And what categories of apps are eligible 14 note-taking app running on ARC, so, I guess, that's 15 to run using ARC? 15 one app. A It's not really separated by category, 16 I think the other example I can think of 17 per se. It's more separated by what's possible, 17 is Vine; that's another app that runs on ARC. Last 18 meaning not all applications are able to run in 18 I heard, there were about 100 or so applications 19 ARC. 19 that run on ARC. 20 Q And what common characteristics define the 20 Just to put that in perspective, there are 21 ones that are capable of running in ARC? 21 about a million -- over a million applications in 22 MS. ANDERSON: Objection; beyond the 22 Google Play, so you can tell it's a tiny, little 23 scope. 23 subset. 24 THE WITNESS: I don't know that level of 24 BY MS. HURST: 25 technical detail. It's a technical determination. 25 Q So does it require some kind of close Page 194 Page 196 1 It's not a policy thing. There are certain 1 cooperation between your team and the app developer 2 technology choices made by the ARC team as well as 2 in order to get things running -- Android 3 I guess, what the application developer has done 3 applications running on ARC? A That's my understanding, yes. And that's 4 that makes certain applications work well, whereas 5 certain applications not work well in ARC. So it's 5 how an application -- application developer would 6 manually tested and curated first. 6 get ahold of ARC Welder in the first place. This 7 BY MS. HURST: 7 would be sort of a one-to-one relationship, 8 Q I'm just trying to get some understanding 8 engineer-to-engineer or 9 of this. 9 product-person-to-product-person relationship Can you describe for me in any way how the 10 between the ARC team and the developer to ensure 10 11 function of, you know, these Android applications 11 that the app is running well. 12 relates to their ability or inability to run in 12 Q Well, is it your plan to make --13 connection with ARC? 13 ultimately to make ARC Welder broadly available so 14 MS. ANDERSON: Objection; beyond the 14 that Android applications are available on laptop 15 scope. 15 and desktop computers running Chrome OS? THE WITNESS: Well, I guess another way of MS. ANDERSON: Objection; form. 16 17 saying it is ARC is not a -- it's -- how do I put 17 THE WITNESS: I don't know. You know, 18 this? I'm trying to explain it, explain it well. 18 we've gone back and forth on how -- how broad --ARC is -- it's not like Android is running 19 broadly available we want to make the ARC 20 inside of Chrome OS. ARC is a runtime that enables 20 technology. You can think of it as an experiment of 21 some Android apps to run on Chrome OS, but it's not 21 sorts, and so I don't know what the latest thinking 22 like Android itself is running on Chrome OS, so that 22 is from the team on that. It's been probably three 23 means that --23 to six months since I've gotten an update from them

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25

I'll give you a very concrete example. I

25 believe Microsoft Word, which is available on

24 on ARC Welder.

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```
1 BY MS. HURST:
                                                                        (Deposition Exhibit 5015 marked
      Q Does the ARC Welder result in either the
                                                          2
                                                                        for identification.)
 3 Dalvik Virtual Machine or the Android runtime
                                                          3 BY MS. HURST:
 4 running within Chrome?
                                                               Q Do you recognize Exhibit 5015,
 5
         MS. ANDERSON: Objection; beyond the
                                                          5 Mr. Lockheimer?
                                                               A Not exactly, but it does look like -- it
 6 scope.
 7
         THE WITNESS: I don't know.
                                                          7 does look like a bunch of OKRs, but I haven't seen
                                                          8 this exact document, I don't think.
 8 BY MS. HURST:
      Q Are Chromebooks special purpose computers?
                                                         9
                                                               Q Okay.
10
         MS. ANDERSON: Beyond the scope.
                                                         10
                                                                  Well, I'll represent to you that it was
         THE WITNESS: Can you define "special
                                                         11 produced by your counsel as having come from your
11
12 purpose computer"?
                                                         12 possession as the custodian of the document; that
13 BY MS. HURST:
                                                         13 is, the person who maintained it until it was
      O Have you ever heard that term?
                                                         14 provided to us.
                                                         15
15
      A Yes, but it's used in so many different
                                                                  So can you take a minute and see, please,
16 ways that I don't know what it means. What did you
                                                         16 whether it's something that you're familiar with?
17 mean when you asked the question?
                                                         17
                                                                A Sure. I'll take a look. Give me a
      Q Is it the same or different with respect
                                                         18 second, but it's possible someone e-mailed it to me
19 to its purpose than an ordinary desktop computer?
                                                         19 and that's why it was, quote, in my possession.
20
         MS. ANDERSON: Objection; form.
                                                         20 Doesn't necessarily mean that I know everything
21
         THE WITNESS: I don't know if there's one
                                                         21 about it, but I'll take a look.
                                                         22
22 singular purpose for a, quote, ordinary desktop
                                                                  I looked at all the pages.
23 computer, so it's hard for me to answer that. For
                                                         23
                                                               Q Can you tell me anything more about what
                                                         24 is Exhibit 5015?
24 instance, you know, my mother-in-law uses her
25 desktop computer to manage her Mary Kay products.
                                                         25
                                                               A Well, looking at this, it looks like what
                                                Page 198
                                                                                                         Page 200
                                                          1 we would call OKR results, and by the dates written
 1 You know, I use my desktop computer to do e-mails.
 2 Is that the same purpose? Probably not. So I don't
                                                          2 here, it looks like it comes from -- it's pretty
                                                          3 recent. It's a Q3 of this year, third quarter of
 3 even know if there's a single purpose for computers,
 4 so I don't know how to differentiate from that.
                                                          4 this year, document where it says "Q3 '15 MOQ." I
 5 BY MS. HURST:
                                                          5 think the M stands for middle of quarter and "Q3
      Q What is the purpose of a Chromebook?
                                                          6 '15 EOQ," I assume refers to end of quarter. And
 6
                                                          7 this document is describing various OKRs throughout
 7
        MS. ANDERSON: Objection; beyond the
                                                          8 the company, at least the ones that were tracked in
 8 scope.
                                                          9 this document, and gives sort a score: Red, yellow
 9
        THE WITNESS: It really depends on the
10 purchaser of it. I can think of many different
                                                         10 or green, on a per-OKR basis.
11 uses. You know, Chromebooks can be used for -- for
                                                         11
                                                               Q What purpose do you use OKRs, if any?
12 many different purposes.
                                                         12
                                                               A The company uses OKRs to generally align
13 BY MS. HURST:
                                                         13 teams around key objectives or objectives that are
      Q Is a Chromebook a general-purpose
                                                         14 deemed important, not -- by the way, not mutually
14
                                                         15 exclusive to everything else. So just because
15 computer?
                                                         16 something is not an OKR doesn't mean it doesn't
16
        MS. ANDERSON: Objection; beyond the
                                                         17 happen. But OKRs are sort of distillations of
17 scope.
        THE WITNESS: I forget the other term you
                                                         18 important topics that are important to the company
18
19 used earlier, "specialized," I think; just like I
                                                         19 or on a per-product area basis. And we rate them
20 couldn't define that term, I can't define what
                                                         20 every quarter or sometimes multiple times a quarter
                                                         21 just to see how we're tracking against our goals or
21 "generalized computer" means; flip sides, you know,
22 of the same coin. I don't know what you mean by
                                                         22 our objectives.
                                                         23
                                                               Q Which of the OKRs listed in Exhibit 5015
23 that.
        MS. HURST: Exhibit 5015 is GOOG00191479,
                                                         24 are you responsible, in whole or in part, for
24
                                                         25 assisting the company to achieve?
25 spreadsheet of six pages.
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                                                                                                         Page 201
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1 Let's see. 1 A Thank you. Α 2 Q And by "you," I mean anybody working for 2 So where was I? So it's still early 3 days for us on N, so we haven't shared everything 3 you. A Okay. Well, I'll just go down the list 4 yet either, and also they're busy working on M 4 5 one by one. The first one that I see where my team 5 themselves. But we've started to have very 6 had some role in is the one, two, three, fourth one 6 high-level discussions with our partners about N. 7 down where it says: 7 Q Okay. 8 8 "Build new assistant layer in Just continuing there in 1, which is 9 M (Now on Tap) with seamless Web to 9 labeled the "Future of Search on Mobile." 10 app linking and a new runtime 10 Do you see that there, that heading next 11 permissions model. Architecture 11 to Item 1? 12 for ephemeral apps defined." 12 A Oh, sure, sure, the very first line, In brackets right after that it says: 13 13 sure, the header. 14 "[Scott H; Mike C" -- and a parn- that's a typo. 14 Q Right. 15 What they mean is a partner, A-P-A-R-N-A-C, and so 15 So is that like the overarching objective? 16 the Mike C. there is referring to Mike Claron who 16 I mean, there's, you know, a series of numbered 17 works on my team. 17 items here through 14. Q So is M, M means Android-level A Yeah. It's interesting -- it's 19 Marshmallow; is that right? 19 interesting because I feel like I was wondering the A It's correct; it's the latest version of 20 same thing when -- when I was reviewing OKRs. 21 By the way, typically the reason why I 21 Android called Marshmallow. 22 Q And that's already been released, right? 22 didn't recognize this document right away is 23 A Right. It was -- customers started 23 because when they print it out, they print it out 24 receiving it end of September, early October. 24 in the other orientation with very long paper with 25 Q So you're working on N now, right? 25 numbers next to it so we can refer to specific Page 202 Page 204 Correct, we're working on N. 1 items by the row number. This is a spreadsheet 1 2 2 basically. And --Q And what is your target release date for 3 N? Q So it's missing -- is it missing 3 4 A Currently targeting sometime next summer. 4 something, then? 5 Are you already working with partners 5 A Maybe or it may just be the way they 6 around the features or other attributes of version N 6 printed it was different. You know, the printer 7 of Android? 7 added some lines or something. Who knows. But I A We've started to very early -- we've 8 don't question the veracity of this document. I'm 9 started to have very early discussions with 9 just saying the formatting was different from what 10 partners about N. By the way, our operating system 10 I saw. 11 versions are alphabetical. So N comes after M, so 11 Q Than what you usually see? 12 given we just launched M, our partners are pretty 12 A Yeah, exactly. 13 busy updating their devices to M at the moment. 13 Q Okay. Got it. While they're doing that, we're busy 14 A And I always felt when I was looking at 15 working on the next thing, which is N, so we 15 this -- when I -- for instance, when I looked at 16 haven't fully engaged with our partners on all the 16 this -- I don't know -- two months ago or something 17 details of N partially also because we're still 17 like that, I always felt the organization was a 18 working on it and we're still figuring it out. 18 little weird because it's not -- or the groupings 19 But -- excuse me. 19 was a little weird. It's not -- it doesn't go by 20 org chart. So, for instance, the first heading 20 Q Sure. If we need to take a break, just 21 where you -- the point -- the one that you pointed 21 say so. 22 A No. Sorry. 22 out, "Future of Search on Mobile," has a bunch of Q I hate it when I swallow the wrong way and 23 people in it from a certain organization, but, you 24 then cough, cough, cough for 20 minutes. So don't 24 know, Mike Claron from my organization is also

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25 represented there, so it's not a strict org chart

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25 hesitate.

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1 grouping. It's also not exactly sort of a 1 BY MS. HURST: 2 technology grouping either, because in here, they 2 Q So this Project Soy has something to do 3 talk about, I guess, on 1d., the one that I pointed 3 with iOS? 4 out, "Build new assistant layer in M," that's an 4 MS. ANDERSON: Beyond the scope. 5 Android thing, that's not really Search, but it's 5 THE WITNESS: Yes. 6 under the Search heading. 6 BY MS. HURST: 7 So the way they've grouped this is a 7 Q Does it have something to do with other 8 little bit more thematic rather than 8 non-Android phones like, you know, feature phones, 9 organizational or technical --9 or is it just related to iOS? 10 (Reporter clarification.) 10 MS. ANDERSON: Beyond the scope. THE WITNESS: Thematic, rather than, you THE WITNESS: It's related to iOS. It's 11 11 12 know, organizationally or technically correct. 12 about making Google Search on iOS work really well. 13 BY MS. HURST: 13 BY MS. HURST: 14 Q All right. Q Is there something wrong with how it works 14 And, then, so looking at, for example, 15 now? 15 16 Item 1f., "Project Soy items on track," how does 16 MS. ANDERSON: Beyond the scope. 17 that fit with the theme of "Future of Search on 17 THE WITNESS: I don't know. You're an iOS 18 Mobile"? 18 user; what do you think? Are there things we could 19 A That one is consistent with "Search on 19 do better? There's always room for improvement. 20 That's -- that's how we always look at things is 20 Mobile." 21 21 making -- continually making our products better and Q What's it about? 22 better. I think you'll notice a theme here. We're 22 MS. ANDERSON: Beyond the scope. THE WITNESS: How does confidentiality 23 23 always looking at ways to delight customers more 24 than ever. 24 work, by the way? 25 MS. ANDERSON: So this transcript is 25 Page 208 Page 206 1 designated attorneys' eyes only, highest level of 1 BY MS. HURST: 2 confidentiality, and then we'll have a period under Q It would delight me if you weren't using 2 3 the protective order if there's some parts that can 3 my kid's data without my consent. 4 be down-designated, and some parts can't be, we MS. ANDERSON: No question pending. 5 won't. And so, you know, the company has the 5 MS. HURST: Well, if you hadn't asked, I 6 opportunity to designate things to keep it 6 wouldn't have volunteered. 7 7 attorneys' eyes only level. I could use a restroom break. 8 MS. ANDERSON: Okay. If we can keep them 8 THE WITNESS: Uh-huh. Okay. Well, let's 9 try. 9 really short, maybe five minutes, just because we're 10 trying to make sure the witness can get his 10 This Amit, the person's name in brackets, 11 Amit, A-M-I-T, he's the head of Search. He's my 11 children, and we want to give you as much time as 12 peer in the Search organization and Project Soy 12 you have. 13 is -- is one of his projects, doesn't have anything 13 MS. HURST: You know, we were here ready 14 to do with Android. 14 to go on time. I don't want to get in a big fight 15 with you about this now, but, you know, having to 15 BY MS. HURST: 16 take a restroom break, I don't think is something 16 Q What's it about? 17 MS. ANDERSON: Beyond the scope. 17 that, you know, is out of bounds. 18 THE WITNESS: It's about Search on Mobile 18 MS. ANDERSON: Well, I didn't complain 19 about you taking a restroom break. I just asked if 19 outside of Android. 20 BY MS. HURST: 20 we could keep it to five minutes as I'm trying to 21 Q What does that mean? 21 help you have more time with the witness. That's 22 MS. ANDERSON: Beyond the scope. 22 what I'm trying to do. 23 THE WITNESS: There are many other devices 23 THE VIDEOGRAPHER: We are off the record 24 that connect to the mobile networks that aren't 24 at 3:03 p.m. 25 running Android. I think you have one of them. 25 (Recess taken.) Page 207 Page 209

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	Z-MITORIVETS ETES ONET
1 THE VIDEOGRAPHER: We are on the record at	1 BY MS. HURST:
2 3:09 p.m.	2 Q And what plans or strategies do you have
3 BY MS. HURST:	3 for getting manufacturers to agree to do this,
4 Q Continuing with Exhibit 5015,	4 assuming such approvals?
5 Mr. Lockheimer, are any of the objectives in Item 2,	5 MS. ANDERSON: Beyond the scope.
6 "Mobile Monetization," under your organization?	6 THE WITNESS: How do we plan on doing
7 A Nope, they are not.	7 this?
8 Q What is GAIA referenced in 2d.?	8 BY MS. HURST:
9 MS. ANDERSON: Beyond the scope.	9 Q How do you plan on inducing the
10 THE WITNESS: GAIA, G-A-I-A, is an	10 manufacturers to agree to put the Google Play Store
11 internal name for a Google internal name for our	11 on their handsets, assuming the appropriate
12 identity management system. Another way to say it	12 approvals?
13 is what a customer would know as their Google	MS. ANDERSON: Objection; form, beyond the
14 account. GAIA is the system internally that manages	14 scope.
15 Google accounts.	15 THE WITNESS: Well, there are a number of
16 BY MS. HURST:	16 approaches we've taken. The application store
17 Q What is Project Sidewinder?	17 environment, if you will, in China is very different
18 A Where do you see that?	18 from how it is in the rest of the world. In China,
19 Q I'm not asking about the document.	19 it's not uncommon for consumers to install,
20 A Oh, I see.	20 themselves, multiple stores and download
21 Q I'm asking you what is Project Sidewinder?	21 applications from multiple stores.
22 A Okay. Project Sidewinder is a project	22 Contrasting that to a typical experience
23 related to bringing Google Play to China.	23 for the rest of the world where typically a customer
24 Q And have you had any involvement in	24 goes to one store and downloads, you know, all their
25 Project Sidewinder?	25 applications from that one store.
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1 MS. ANDERSON: Beyond the scope of Topic	1 So the environment is very different in
2 2.	2 China, so we're still learning how to work in that
3 THE WITNESS: Sort of on the periphery,	3 environment, which is foreign to us. And so we've
4 but not not a main role. I'm not responsible for	4 taken a number of approaches. Partially some of
5 Google Play, but obviously Google Play runs on	5 it relates to, for example, working with
6 Android, so I have a relationship with the Play	6 manufacturers in China who want to have bigger
7 team, but Sidewinder is run out of the Google Play	7 successes outside of China. We've talked about
8 team.	8 working together so that we'll help them be more
9 BY MS. HURST:	9 successful outside of China, which we have
10 Q Well, what role do the handset	10 experience with, in general; not talking about
11 manufacturers play in connection with Project	11 stores but about just the marketplace in general.
12 Sidewinder?	12 And in exchange, we get their help in
MS. ANDERSON: Beyond the scope.	13 learning how to be successful in the Chinese market.
14 Objection; form.	14 That's that's one example of how we've approached
15 THE WITNESS: Well, the idea is just like,	15 this.
16 for example, the U.S. today, when you buy an Android	16 BY MS. HURST:
17 phone, it comes with the Google Play Store, and	17 Q Have you proposed or discussed revenue
18 that's something the manufacturer does. Project	18 sharing in association with manufacturers in
19 Sidewinder is partially about working with	19 connection with Project Sidewinder?
20 manufacturers who are selling devices in China to	MS. ANDERSON: Beyond the scope.
21 see if they would be willing to put the Play Store	THE WITNESS: I believe we have.
22 on their devices in China.	22 BY MS. HURST:
Now, all of this is subject to regulatory	23 Q In fact, you personally discussed revenue
24 and government approvals, which we have not	24 sharing with Samsung; isn't that true?
25 received, so it's not launched at all.	MS. ANDERSON: Beyond the scope.
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THE WITNESS: I've discussed revenue 1 BY MS. HURST: 1 2 sharing with Samsung in general, but I can't 2 Q I'm talking about you personally, 3 Mr. Lockheimer. Did you discuss with anyone at 3 remember if I've discussed revenue share with 4 Samsung specifically about China. 4 Samsung putting the Google Play Store on Android Maybe I misunderstood your question. 5 phones manufactured for the China market? 5 6 BY MS. HURST: MS. ANDERSON: Beyond the scope. 7 7 Q Well, what was the context in which you THE WITNESS: I have had very preliminary 8 discussed revenue sharing with Samsung in general? 8 and brief discussions with Samsung about our efforts MS. ANDERSON: Beyond the scope. 9 in China, but I don't think I've ever received any THE WITNESS: Just -- I think we talked 10 10 commitment of any sort, at least personally. 11 about this before. There are some manufacturers 11 BY MS. HURST: 12 that we have revenue share arrangements with. 12 Q So if somebody wrote down in a document, 13 Samsung, I think, was an example I gave. So same as 13 "Hiroshi got a verbal commitment from Samsung in 14 that. No difference from the previous conversation. 14 connection with Project Sidewinder," you don't have 15 any idea what that means? 15 BY MS. HURST: 16 MS. ANDERSON: Beyond the scope. Q Is it true that you got a verbal 17 commitment from Samsung to participate in Project 17 THE WITNESS: No. I mean, I can't 18 Sidewinder in connection with revenue sharing? 18 remember a specific conversation with Samsung where 19 MS. ANDERSON: Beyond the scope. 19 they, quote, committed to doing Sidewinder. 20 THE WITNESS: I don't know. 20 BY MS. HURST: 21 BY MS. HURST: 21 Q Does Android -- does the Android platform Q You don't know whether you got a verbal 22 have built within it any functions that assist in 23 commitment from Samsung to put the Google Play Store 23 mobile payment processing? 24 on its phones in China? 24 MS. ANDERSON: Beyond the scope. 25 25 MS. ANDERSON: Beyond the scope. THE WITNESS: Your question was, does Page 214 Page 216 THE WITNESS: As I was mentioning before, 1 Android have anything built into it that does mobile 1 2 the Sidewinder project is unique. First of all, we 2 payments? 3 don't even have regulatory approval from the Chinese 3 BY MS. HURST: 4 government to launch this product. So it's -- all Q That assists with mobile payments. 5 of these conversations are very early and pending A Assists. I guess it depends on how 6 government approval, if that approval were to even 6 pedantic of an answer you want. I mean, the fact 7 come through. We don't know when that is. So 7 that it's an operating system that allows 8 applications to be run, and for these applications 8 conversations we've had with any manufacturer 9 related to Sidewinder is very preliminary. 9 to be able to do whatever they want is a form of 10 BY MS. HURST: 10 assistance. I mean, certainly there are many 11 Q Did you get a verbal commitment from 11 companies that have made payment applications for 12 Samsung? 12 Android. 13 Α 13 All right. 14 Q To put the Google Play Store on its phones 14 So if the operating system doesn't run, 15 in China? 15 then there won't be any payment processing? MS. ANDERSON: Beyond the scope. MS. ANDERSON: Beyond the scope. 16 16 17 17 THE WITNESS: I don't know. THE WITNESS: Well, if the operating 18 BY MS. HURST: 18 system doesn't allow for applications, there can't Q Well, did you have a discussion with 19 be any payment applications or applications of any 20 kind. That's why I'm saying, I don't know at what 20 anyone from Samsung about putting the Google Play 21 Store on its phones in China? 21 point would you consider it assisting versus just 22 MS. ANDERSON: Same objections. 22 the fact that it exists? THE WITNESS: Now, when you say "you," I 23 BY MS. HURST: 24 get sometimes confused. Are you talking about me as 24 Q So the Google Wallet, for example, is a --25 an individual now, or are you talking about Google? 25 is a payment processing application; is that right? Page 215 Page 217

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A I don't know if the Google Wallet team 1 a cut of payment processing transaction fees? 2 would exactly call it that. I just don't know how A I don't know for sure. 3 they refer to themselves. But, yes, from a Q Is there anything else that you're aware 4 layperson's perspective, it does feel like a 4 of that's a way of money flowing associated with 5 payment-related or money-related application. 5 payment processing that Google gets a cut of? Q In order for that to work, does there need MS. ANDERSON: Beyond the scope. 7 7 to be a Near Field Communications chip in the phone? THE WITNESS: The App Store has nothing to MS. ANDERSON: Beyond the scope. 8 do with Near Field, but you didn't say anything 9 THE WITNESS: The Near Field chip is a 9 about Near Field in your question, so the App Store 10 nice-to-have, but my understanding is it's not 10 discussion we had previously or the subscription 11 mandatory. 11 service from HBO NOW, those are examples where money 12 BY MS. HURST: 12 flows, and there is a share of -- of -- you know, of Q Is there anything in Android that assists 13 that revenue. 14 developers in taking advantage of a Near Field chip? 14 Maybe I'm misunderstanding your question. 15 MS. ANDERSON: Beyond the scope. 15 BY MS. HURST: 16 THE WITNESS: Is there anything in Android Q Well, is HBO NOW a payment processing? 16 17 that helps developers use a Near Field chip? 17 A I thought your question was Google doing 18 BY MS. HURST: 18 payment processing, do we share that revenue. And 19 Q Yeah. 19 I'm saying, well, in the case of HBO NOW, we're 20 A Sure, but it doesn't have to be payment 20 doing payment processing for the HBO NOW 21 related. 21 subscription service, and they obviously get their 22 Q But it can be? 22 revenue from us. 23 MS. ANDERSON: Beyond the scope. 23 Q I'm talking about payment processing out 24 THE WITNESS: Sure, it can be. This was 24 in the world, not in a Google Play Store, okay? 25 my point about at what point is one assisting the 25 People are out in the world using their Page 218 Page 220 1 other? It exists. It can be used for anything. 1 Android phones in order to make payments. And then 2 For instance, could be used for unlocking this door. 2 there's a processing that goes on associated with 3 that. 3 BY MS. HURST: Q But here in the Bay Area, maybe sometimes 4 A Okay. 5 we go to Peet's Coffee and we see there's a little 5 Q Is Google getting a cut of that somewhere? 6 thing there at the checkout, and you can tap your 6 MS. ANDERSON: Objection; form. 7 phone, your Android phone, on it as a means of 7 THE WITNESS: I don't know. 8 payment, right? 8 BY MS. HURST: 9 Q How's the term "dogfood" used at Google? MS. ANDERSON: Beyond the scope. 10 10 THE WITNESS: I don't actually know if A Very often. 11 Peet's supports it. It's merchant by merchant or 11 Q What does it mean? 12 merchant network by merchant network, so there are 12 A To use a product before it's made 13 compatibility issues there, but in general, the 13 commercially or publicly available. For employees 14 concept is true, yes. I don't know about Peet's 14 to use the product before making it available to 15 specifically. 15 the public. 16 BY MS. HURST: Q Would you turn, please, to the third page, Q Now, does Google monetize the payment 17 Item 9 of Exhibit 5015. 18 processing capabilities of Android in any way, 18 A Item 9. Okay. 9a. 19 either directly or indirectly? 19 Q Yeah, 9a., "Single Google mobile developer 20 MS. ANDERSON: Objection; form. 20 SDK announced at I/O." THE WITNESS: Does Google monetize the 21 Do you see that? 22 payment capability. Do you mean -- what do you mean 22 A I do see that. 23 by that? 23 What is that? 24 BY MS. HURST: 24 A Well, it's not exactly my area. As you 25 can see, Jason's name is next to it, and Jason Q Well, let's start with this: Do you take Page 219 Page 221

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1 doesn't report to me, so I'm not familiar with all 1 Location, Payments. They did put Android in here. 2 the details. But what I know of it is that it's 2 You'll see -- that list is, I think, alphabetical. 3 bringing capabilities that Google has, making them 3 And the reason why Android is in there at all is 4 available for application developers so that it 4 just to signify that this SDK will work on top of 5 simplifies their lives, their lives as the 5 Android. 6 developer, so it makes them more efficient in I can see how that if you're looking at 6 7 developing applications. 7 this single line here in isolation, that would be Q Well, Android is listed here as one of the 8 confusing, but just knowing the context, that 9 elements of the mobile -- unified mobile developer 9 that's what that means. 10 SDK, true? 10 Q Does this generic unified mobile platform A I do see what it says: 11 SDK include the Android SDK? 11 12 "Single unifying Ads, 12 A First of all, I didn't say "generic Analytics, Android, Apps/Drive, 13 mobile SDK." I said Android is a generic operating 13 14 Cloud, Distribution, Identify, 14 system. This SDK that they're referring to in 9a. 15 Location [and] Payments." 15 is actually not generic. It's the Google developer Q It says underneath: "Making good progress 16 SDK, and it is not -- it is not in the Android SDK. 16 17 on unified mobile platform." 17 It's separate. It's on top of it, and it's -- it's Do you see that? 18 18 a --19 A I do see that. 19 How do I phrase this? Any company is 20 free to build SDKs on top of Android. In fact, 20 Q So what plan or strategy is there for 21 Android to play a role in this unified mobile 21 companies like Facebook and Twitter have done it 22 platform referenced here in Exhibit 5015? 22 where they've built SDKs for app developers of 23 A It refers --23 Android. We're doing the same thing here. 24 24 Q Do you intend to avoid fragmentation in Go ahead. 25 MS. ANDERSON: Sorry. Objection; form. 25 building this Google SDK for Android? Page 222 Page 224 1 1 MS. ANDERSON: Beyond the scope. Go ahead. 2 THE WITNESS: How do I explain this? It 2 THE WITNESS: Orthogonal topics. This is 3 runs on top of Android, so it's not built into 3 just about developer productivity, so it doesn't 4 Android, per say. It's just -- you can think of it 4 have anything to do with fragmentation. 5 as a tool kit that's made available for Android 5 BY MS. HURST: 6 developers, an optional tool kit that's made Q What is Android Studio? 7 7 available for Android developers that unifies all A Android Studio is a integrated 8 development environment or an IDE. It's basically 8 the Google technologies like ads or analytics, just 9 to use these examples here, in a single sort of tool 9 what application developers use to build -- it's a 10 kit. 10 tool that application developers use to do their 11 Now, the important distinction here is 11 job. 12 that within Google, there's a pretty clear 12 Q Item 10 on that same page, do you see is 13 distinction between Android and the rest of Google. 13 "Next Billion Users"? 14 I touched upon this earlier, but Android as an 14 A I do see that. 15 operating system doesn't know about any single 15 There's a reference in the second line to 16 a "Chrome Blimp effort to build an ultra thin 16 company. It's just a generic operating system. So 17 client." 17 when they talk about a mobile developer -- a Google 18 mobile developer SDK, they're talking about an SDK 18 What is that? 19 19 that goes on top of the generic Android operating MS. ANDERSON: Beyond the scope. 20 system that has the Google functionality in it. 20 THE WITNESS: I have no idea. I've never 21 Q Well, it says "unified mobile platform," 21 heard of the Chrome Blimp effort. Sounds 22 right? 22 interesting, though. A Right. The unification they're referring 23 BY MS. HURST: 24 to here is the unification of Ads, Analytics, 24 Q Turning to the next page, Item 10b.: "GMS

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25 lite for the next billion on 512-megabyte phones."

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25 Apps/Drive, Cloud, Distribution, Identity,

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Q Is it true that you have no responsibility 1 What does that refer to? 2 at all for generating any revenue for the company? 2 A That refers to -- a little bit of A Not necessarily, no. 3 3 context. Phones that are typically sold to the, 4 Q Well, what responsibility do you have for 4 quote, next billion, in other words, customers in 5 emerging markets who may be more price sensitive 5 generating revenue for the company? A Well, to be clear, no -- this is not --6 and are buying lower-cost devices, many of these 7 revenue is not something I spend much of my time 7 phones only come with 512 megabytes of RAM, which 8 thinking about. I guess I'm lucky that way. I 8 by today's standards is pretty minimal. It's not 9 that much RAM. 9 think my colleagues in the ads and monetization 10 side certainly don't have it that way. 10 And there is an issue where the But there's one example that I can think 11 performance of Android because of -- not only, but 11 12 of which is around our Nexus devices that are sold 12 in large part, because of the fact that there are 13 many apps on these devices that use a lot of RAM, 13 through the Google Store. I'm responsible for the 14 Google Store in general. It's a hardware store 14 the overall performance of these devices are -- is 15 online where we sell various products, including 15 suffering. So an end user in these markets with 16 Nexus phones and tablets and watches and so on. 16 these phones with only 512 megabytes of RAM are 17 And since I'm responsible for that team, that team 17 having a pretty terrible user experience. 18 is, you know, certainly responsible for operating And so this effort here is to put our 19 that store efficiently and -- and selling as many 19 apps listed here on a diet, if you will, so that 20 products as -- as they can. So certainly that has 20 they use less RAM so that the overall user 21 revenue impact. 21 experience of these devices can be improved. 22 Q Are your Nexus phones profitable? Q Do you have any understanding as to what 23 MS. ANDERSON: Beyond the scope. 23 platform is typically being used today in emerging 24 THE WITNESS: No, they are not. 24 markets that are more price sensitive with 25 25 lower-cost devices and fewer hardware capabilities? Page 226 Page 228 MS. ANDERSON: Beyond the scope. 1 1 BY MS. HURST: 2 2 Objection; form. Q You're losing money on Nexus phones? THE WITNESS: What platform, meaning what 3 MS. ANDERSON: Beyond the scope. 4 operating system, or what do you mean by "what THE WITNESS: We are. 5 platform"? 5 BY MS. HURST: 6 BY MS. HURST: 6 Q Doesn't that concern you? 7 Q I mean what application development MS. ANDERSON: Beyond the scope. THE WITNESS: Sure. 8 9 BY MS. HURST: A Application development platform. I'm 10 not sure I know how to parse that question, but 10 Q Have you always lost money on Nexus 11 I'll give it a shot. 11 phones? 12 Many devices that are being sold in 12 MS. ANDERSON: Beyond the scope. 13 these markets are reported to be Android based, if 13 THE WITNESS: Yes. 14 that's -- if that's what you're asking. 14 BY MS. HURST: Q Are many devices that are being sold in Q When was the first Nexus phone released? 15 15 MS. ANDERSON: Beyond the scope. 16 this market also reported to be Java based? 16 17 MS. ANDERSON: Beyond the scope. 17 THE WITNESS: The first Nexus phone was 18 THE WITNESS: Not that I've seen, no. 18 released in -- I believe it was January of 2010. 19 BY MS. HURST: 19 BY MS. HURST: 20 Q Who do you consider to be your principal 20 Q So for five years, you've been losing 21 competitor in these emerging markets? 21 money on Nexus phones? 22 MS. ANDERSON: Beyond the scope. MS. ANDERSON: Beyond the scope. 23 Objection; form. 23 THE WITNESS: Yes. I also give away my THE WITNESS: iPhone. 24 software for free. 25 BY MS. HURST: 25 Page 227 Page 229

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1	BY MS. HURST:	1	that without breaking privilege.
2	Q That's because you know you'll make it up	2	MS. ANDERSON: Okay. Well, on that basis,
3	• •		to the extent that requiring you to respond to the
4	MS. ANDERSON: Objection; form.		question would require you to reveal communications
5	THE WITNESS: I never said that. I think		with counsel, I'd instruct you not to answer on that
	the point is, we want to make sure that we provide		ground. But if you have information that is
	an operating system and a platform and an ecosystem		otherwise not privileged, you may respond to the
	that end users enjoy using and may be part of what		question with the understanding that I have objected
	they do. As part of that usage of this little	9	as beyond the scope.
	computer that they're always carrying around with	10	THE WITNESS: I can't think of any
	them, is to connect to the Internet, and hopefully		non-privileged way in which I would know that, so I
	they also access Google services.		can't answer on the basis of privilege.
	BY MS. HURST:	13	MS. HURST: This is just a fact. It's
14	Q Would you take a look at Exhibit 5003,		not a fact itself whether Google makes payments
15	•		is not privileged. So and we're entitled to
16	A 5003. Okay. Okay.		discover the fact. So if you don't answer it and we
17	Q Topic 8 says: "All enforcement of		don't get the answer today, then we're going to have
	intellectual property interests of any kind"		to go to court and we're going to have to come back
19	A Hold on. Hold on. What page is it?		here another time and get the answer.
20	Q 7.	20	So it's up to you guys if you want to go
21	A Okay. At the bottom, yes.		find some way to let the witness answer the
22	Q Do you see:		question, but it's really clear from the topic that
23	"All enforcement of		the information would be that I've just requested
24	intellectual property interests of		would be required.
25	any kind against Android, whether	25	MS. ANDERSON: Our objection still stands.
	Page 230		Page 232
1	directed to Google, mobile		It's beyond the scope of the topic as we have
1 2	directed to Google, mobile carriers, OEMs or other members of	2	objected to and agreed to it, and so if you can only
	directed to Google, mobile carriers, OEMs or other members of the Open Handset Alliance, and any	2 3	objected to and agreed to it, and so if you can only respond by revealing a privileged communication,
2	directed to Google, mobile carriers, OEMs or other members of the Open Handset Alliance, and any payment by you, mobile carriers,	2 3 4	objected to and agreed to it, and so if you can only respond by revealing a privileged communication, then you should refrain from disclosing privileged
2 3	directed to Google, mobile carriers, OEMs or other members of the Open Handset Alliance, and any payment by you, mobile carriers, OEMs, members of the Open Handset	2 3 4	objected to and agreed to it, and so if you can only respond by revealing a privileged communication, then you should refrain from disclosing privileged communications.
2 3 4	directed to Google, mobile carriers, OEMs or other members of the Open Handset Alliance, and any payment by you, mobile carriers, OEMs, members of the Open Handset Alliance or anyone else resulting	2 3 4 5 6	objected to and agreed to it, and so if you can only respond by revealing a privileged communication, then you should refrain from disclosing privileged communications.  MS. HURST: We did not agree to any
2 3 4 5 6 7	directed to Google, mobile carriers, OEMs or other members of the Open Handset Alliance, and any payment by you, mobile carriers, OEMs, members of the Open Handset Alliance or anyone else resulting of any assertion of intellectual	2 3 4 5 6 7	objected to and agreed to it, and so if you can only respond by revealing a privileged communication, then you should refrain from disclosing privileged communications.  MS. HURST: We did not agree to any limitations of this topic, and we certainly did not
2 3 4 5 6	directed to Google, mobile carriers, OEMs or other members of the Open Handset Alliance, and any payment by you, mobile carriers, OEMs, members of the Open Handset Alliance or anyone else resulting	2 3 4 5 6 7 8	objected to and agreed to it, and so if you can only respond by revealing a privileged communication, then you should refrain from disclosing privileged communications.  MS. HURST: We did not agree to any limitations of this topic, and we certainly did not agree to limit a topic that says "all enforcement of
2 3 4 5 6 7 8	directed to Google, mobile carriers, OEMs or other members of the Open Handset Alliance, and any payment by you, mobile carriers, OEMs, members of the Open Handset Alliance or anyone else resulting of any assertion of intellectual property against Android." Do you see that?	2 3 4 5 6 7 8 9	objected to and agreed to it, and so if you can only respond by revealing a privileged communication, then you should refrain from disclosing privileged communications.  MS. HURST: We did not agree to any limitations of this topic, and we certainly did not agree to limit a topic that says "all enforcement of intellectual property interests of any kind" to a
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1 that.	1 any communication that you've had with counsel, just
2 For now, the witness is here. You may ask	2 "yes" or "no" or "I don't know," I suppose: Does
3 him questions, but the privilege objection stands.	3 Google pay any other company with respect to that
4 MS. HURST: There is no privilege	4 other company's intellectual property interest
5 objection to a fact. Either the witness knows it in	5 asserted against Android?
6 a way he can answer it because he's here as a	6 MS. ANDERSON: Beyond the scope.
7 30(b)(6) to testify on behalf of the company or	7 THE WITNESS: There is no way for me to
8 instruct him not to answer, and then I can go and	8 answer that without losing privilege.
9 get an order to produce a witness that actually	9 BY MS. HURST:
10 knows something about the topic as it was	10 Q Are you refusing to answer the question?
11 propounded.	11 MS. ANDERSON: You may answer "yes" or
MS. ANDERSON: I suggest you move to your	12 "no."
13 next question, Counsel.	13 THE WITNESS: Yes, based on what I've been
MS. HURST: I'm not going to move I'm	14 told.
15 not going to move to another question until I either	15 BY MS. HURST:
16 get an instruction not to answer or an answer.	16 Q So are there agreements at Google
MS. ANDERSON: I already have instructed	17 reflecting some agreement to pay a third party in
18 the witness not to answer, Counsel. I've done it	18 respect to their intellectual property assertion
19 twice. Would you like me to do it again?	19 against Android?
MS. HURST: You actually did not instruct	MS. ANDERSON: Objection as beyond the
21 the witness not to answer. But thank you for now	21 scope, and to the extent any information you might
22 making it clear that that's what you intended.	22 know in response to this question you only know from
MS. ANDERSON: When I told the witness,	23 a communication with counsel, I instruct you not to
24 twice now, that to the extent responding to your	24 answer on grounds of privilege. But otherwise, you
25 question would require you to reveal communications	
Page 234	Page 236
1 with counsel, I instruct you not to answer on that	1 THE WITNESS: If you could repeat the
2 basis of privilege. Otherwise, you may answer. The	2 question again.
3 witness informed you he doesn't have any other basis	3 BY MS. HURST:
4 to respond.	4 Q Are there any written agreements at Google
5 MS. HURST: That's not an instructions	5 reflecting some agreement to pay a third party in
6 unless you then say, "I instruct you not to answer	6 respect to their intellectual property assertion
7 the question."	7 against Android?
8 And will you also stipulate, Ms. Anderson,	8 MS. ANDERSON: Same objection. Same
9 that he won't answer the question once so instructed	9 instruction.
10 so I don't have to ask it again?	THE WITNESS: I don't know.
11 MS. ANDERSON: No. What I've told the	11 BY MS. HURST:
12 witness is if he has information aside from	12 Q Have you ever seen press reports
13 information he only knows from a communication with	13 indicating that Google or handset makers have had to
14 counsel, he may provide it to you.	14 pay third parties in respect to their assertion of
MS. HURST: So you're refusing to	15 intellectual property interests regarding Android?
16 stipulate?	MS. ANDERSON: Beyond the scope.
17 MS. ANDERSON: I don't even understand	17 THE WITNESS: Sure, I've read I've read
18 what you just said. In any event, if you would like	18 press reports about handset manufacturers, yes.
19 to continue discussing this, I'm happy to do it, but	19 BY MS. HURST:
20 I suggest you spend your time asking questions.	Q You've read, for example, that handset
21 MS. HURST: I've spent much time today	21 manufacturers pay Microsoft related to their use of
22 asking questions. Unfortunately, the answers have	22 Android?
23 been thin on the ground.	MS. ANDERSON: Objection; beyond the
24 BY MS. HURST:	24 scope, also form.
25 Q "Yes" or "no," don't reveal the content of	25 THE WITNESS: Actually, that's not the one
Page 235	Page 237

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1 extent a response to this question would require you 1 I was thinking about. 2 BY MS. HURST: 2 to reveal information you only learned from counsel, 3 I instruct you not to answer on grounds of 3 Q Which one were you thinking about? MS. ANDERSON: Objection; beyond the scope 4 privilege. But otherwise, you may answer. 4 THE WITNESS: I can't answer on the 5 and as to form. THE WITNESS: I was thinking about the 6 grounds of privilege. 7 BY MS. HURST: 7 article I read recently, for example, about Samsung Q Do you have information responsive to the 8 paying Apple. 9 BY MS. HURST: question? "Yes" or "no"? 10 MS. ANDERSON: One moment. All right. As Q And it was your understanding that they 11 long as we have an agreement that his responding to 11 were paying them because of an assertion of 12 the question "yes" or "no" is not a waiver of any 12 intellectual property interest against Android? 13 privilege. I don't believe it is, but I want to MS. ANDERSON: Objection; beyond the scope 14 make sure we have a confirmation from Oracle's 14 and as to form. THE WITNESS: Well, that's a good 15 counsel on the record. 15 16 MS. HURST: I don't believe it is either. 16 question. I don't know if the payments were 17 I don't believe the answer to this question requires 17 specifically about Android, but it was certainly 18 about their devices. Now, I don't know how much of 18 him to divulge privileged communications. MS. ANDERSON: Okay. So you may answer 19 whatever amount they're paying or allegedly paying 19 20 just a "yes" or a "no." 20 is because of the software versus their hardware. I 21 have no idea. 21 THE WITNESS: If you could repeat the 22 question one more time. 22 BY MS. HURST: 23 BY MS. HURST: Q Have you ever heard or read that any of 24 Q Have you ever -- pardon me. 24 your Android handset makers are paying Microsoft 25 Has any manufacturer asked Google to 25 because of some assertion of intellectual property Page 238 Page 240 1 interests by Microsoft related to Android? 1 reimburse it for any payments that it had to make to MS. ANDERSON: Objection; beyond the scope 2 a third party in respect of that third party's 3 and, again, objection on the grounds of privilege to 3 assertion of intellectual property interests? Do 4 the extent you only know a response to this question 4 you have any information -- "yes" or "no" -- on that 5 on the basis of a communication with counsel, and in 5 subject? 6 that case, it would be privileged. But otherwise, 6 MS. ANDERSON: And subject to my statement 7 you may answer. 7 and objections, you may answer "yes" or "no." THE WITNESS: I have read and I have heard 8 THE WITNESS: I believe so, yes. 9 that some Android manufacturers are -- have been 9 BY MS. HURST: 10 asked to pay Microsoft, yes. 10 Q All right. 11 BY MS. HURST: 11 And who did that information come from? 12 12 Q And is that true? MS. ANDERSON: You may give a name. 13 MS. ANDERSON: Objection; beyond the 13 THE WITNESS: I think it was Susan Kim. 14 BY MS. HURST: 14 scope. Objection to form. 15 THE WITNESS: I have no way to validate 15 Q And who is Susan Kim? 16 whether a manufacturer is actually paying Microsoft 16 MS. ANDERSON: You may identify her title, 17 or not. I don't see their bank accounts. 17 if you're aware of it. 18 BY MS. HURST: 18 THE WITNESS: I don't know her title, but Q Well, has any manufacturer asked Google to 19 19 she's on the legal team. 20 BY MS. HURST: 20 reimburse it for any payments that it has had to 21 make to a third party in respect to that third 21 Q Who does she report to? 22 party's assertion of intellectual property 22 A I don't actually know. 23 interests? 23 When was the communication or MS. ANDERSON: Objection; beyond the scope 24 24 communications you had with her on this subject that 25 and also objection on the basis of privilege to the 25 I identified?

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1 MS. ANDERSON: You may provide a date if THE WITNESS: And your question was 2 you --2 whether I instructed anyone to do anything? 3 THE WITNESS: Wow, I don't know the exact 3 BY MS. HURST: 4 date. Maybe a year ago, maybe a little bit less. Q Did you do anything -- just "yes" or "no." 5 Let's call it 18 to six months ago. 5 Did you do anything or instruct anyone else to do 6 BY MS. HURST: 6 anything as a result of this communication with 7 Q Was it a personal one-on-one communication 7 Ms. Kim on the topic of third-party requests for 8 that you had with her? 8 reimbursement? MS. ANDERSON: Objection; form. 9 MS. ANDERSON: Same objection. Same 10 THE WITNESS: I don't think so. 10 instruction. 11 BY MS. HURST: 11 THE WITNESS: I don't -- I don't remember. Q Was it a presentation that she made? 12 12 BY MS. HURST: MS. ANDERSON: Objection; form. 13 Q Can you tell me anything about any THE WITNESS: I don't remember if there 14 14 third-party's request for reimbursement from Google 15 was a presentation as in a -- like, a projected 15 related to the assertion of another of intellectual 16 document involved. 16 property interests against Android? 17 BY MS. HURST: 17 MS. ANDERSON: Objection; beyond the scope Q What was the form in which Ms. Kim 18 and object on the grounds of privilege. 19 transmitted the information to you? 19 Instruct the witness not to answer to the 20 MS. ANDERSON: Objection; form. 20 extent responding would require you to reveal the 21 THE WITNESS: I think verbally. I don't 21 contents of communications with counsel. But 22 remember if there was any written materials, but I 22 otherwise, you may answer. 23 think it was verbally in person. 23 THE WITNESS: I don't believe I can answer 24 BY MS. HURST: 24 this without divulging privileged information. 25 Q Okay. 25 Any -- if any such requests were to come in, they Page 242 Page 244 Was anybody else present? 1 would have come in through our legal team, and 1 2 A I'm not sure. 2 that's how I would have found out about it, which is 3 Q Who initiated the communication? 3 why I can't divulge without getting into privileged 4 MS. ANDERSON: Objection; form, and just 4 information. 5 caution the witness, because this is discussion of a 5 BY MS. HURST: 6 privileged communication, to not disclose the 6 Q Are you refusing to answer the question? 7 7 content of the communication, but you may identify MS. ANDERSON: You may answer "yes" or 8 "no." 8 the person who initiated it. 9 THE WITNESS: I typically -- not THE WITNESS: On the basis of privilege, 10 typically. I sync with the legal team from time to 10 yes. 11 time. Typically Susan initiations those. I can't 11 BY MS. HURST: 12 remember in this particular instance who initiated Q Have you seen any writing from a 12 13 it. 13 third-party requesting reimbursement from Google 14 BY MS. HURST: 14 related to the assertion by another of intellectual Q Did you take any action or instruct anyone 15 property interests against Android? MS. ANDERSON: Objection; beyond the 16 else to take any action as a result of this 16 17 communication? 17 scope, and just caution the witness on the grounds 18 MS. ANDERSON: Let me think about that for 18 of privilege. But you may respond "yes" or "no" to 19 a moment. 19 this question to be sure you don't reveal contents 20 I want to caution the witness on the 20 of communications with counsel. 21 grounds of privilege. I'd instruct you not to 21 THE WITNESS: I don't remember. 22 answer the question if responding to the question 22 BY MS. HURST: 23 actually causes you to reveal the communication with 23 Q Have you seen any writing wherein Google 24 counsel. But if you can respond without so doing, 24 agrees to pay reimbursement to a third party related 25 to an assertion by another of intellectual property 25 you may -- you may do that. Page 243 Page 245

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1 interests against Android? 1 know the response, other than communication through 2 MS. ANDERSON: Same objections. Same 2 counsel, I would instruct you not to answer. But 3 instruction. 3 otherwise, you may answer. It is also beyond the THE WITNESS: I don't remember. 4 4 scope. 5 BY MS. HURST: 5 THE WITNESS: Let me try it this way: I Q Have you seen any writing from a 6 don't think I've ever personally received an e-mail 7 third-party demanding that Google pay with respect 7 asking for money due to intellectual property 8 to an assertion by that party of intellectual 8 issues. I think that's your question. 9 property interests against Android, other than in 9 BY MS. HURST: 10 connection with this lawsuit? 10 Q Well, I'm not asking if you've personally MS. ANDERSON: Objection; beyond the 11 received one. I'm asking if you've seen a demand 12 scope. Objection; form. 12 that's come from outside of Google to Google THE WITNESS: I'm trying to understand if 13 demanding that Google pay or otherwise respect 14 this is the same question that you've asked me 14 somebody's intellectual property interests. 15 before, or if it's a different question. To me, it 15 MS. ANDERSON: Same objections and same 16 sounds like the same question, but I may be 16 instruction. 17 misunderstanding you. 17 BY MS. HURST: 18 BY MS. HURST: Q In respect of Android. Not just Q Before I was asking you about requests for 19 19 generally. 20 reimbursement. Now I'm asking you about demands 20 Α Regarding Android? 21 directly to Google. 21 O Yeah. 22 A Demands directly from Google from --22 A If I have seen anything like that, it 23 Q To Google from somebody else. 23 would have been privileged. 24 A I see. 24 Q Okay. 25 25 Q That Google pay them. I'm not asking you about any communication Page 246 Page 248 1 with the lawyer. I'm just asking about the writing 1 I'm asking you: Have you seen a writing 2 from a third party. "Yes" or "no," if you've seen 2 from somebody else outside of Google demanding that 3 one. 3 Google pay it in respect of an intellectual property 4 assertion against Android? 4 A Still trying to parse your question. 5 MS. ANDERSON: Objection; beyond the 5 You're asking whether I've seen someone ask Google 6 scope. Objection; form. 6 for money related to Android and intellectual 7 property? THE WITNESS: I can't answer that without 8 divulging privileged information. 8 Q Correct. Other than in this lawsuit. 9 A Other than in this lawsuit. 9 BY MS. HURST: 10 Q Well, if the writing was from somebody THE WITNESS: And your instructions are to 11 else, that's not privileged because it's outside of 11 not divulge the contents of it but to acknowledge 12 "yes" or "no" I've seen it? 12 Google. 13 Do you understand? 13 MS. ANDERSON: Well, if you can only 14 So I'm asking you if you've seen a writing 14 answer this question because the only way you know 15 the answer is from a communication with counsel, I'd 15 from somebody that's outside of Google demanding 16 instruct you not to answer on grounds of privilege. 16 payment from Google related to an assertion by that 17 party of intellectual property interests against 17 But if you can answer the question and not reveal a 18 Android? 18 communication with counsel, you may answer. MS. HURST: That's an incorrect assertion 19 MS. ANDERSON: Okay. So caution the 20 witness, Oracle's counsel is not in a position to 20 of privilege. If there's a document that exists 21 that is itself unprivileged and the witness has seen 21 advise you on privilege issues; they're not your 22 counsel. 22 it, the fact that a lawyer gave it to him does not 23 make that document privileged and does not entitle I do instruct you that to the extent 24 you to instruct him not to answer. 24 responding to this question requires you inherently 25 MS. ANDERSON: Well, the witness --25 to reveal a communication with counsel, you don't

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1	MS. HURST: If he reveals that he has seen	1	Topic 3.
2	such a document, I'm not going to take the position	2	EXAMINATION
3	that that's a waiver of anything, because it's not.	3	BY MR. RAMSEY:
4	MS. ANDERSON: So let's you can ask me	4	Q All right, Mr. Lockheimer. I'm Gabe
5	a question about privilege in private. So let's go	5	Ramsey, just for the record, also with Orrick for
6	off the record so the witness can ask me. I don't	6	
7	know what the issue is, but we can hopefully resolve	7	So do you understand that today you're
	it and move on.	8	you're being designated by Google to talk about
9	MS. HURST: Thank you.		Google Play Services on behalf of the company?
10	THE VIDEOGRAPHER: We are off the record	l .	A Yes, I do.
	at 4:00 p.m.	11	Q Okay.
12	(Whereupon, the witness and counsel	12	And do you understand that one of the
13	left the conference room and	l .	topics that you've been put forward to testify about
14	returned.)		is, and I quote, "Google Play Services, including
15	THE VIDEOGRAPHER: We are back on the		the nature, purpose and operation of Google Play
	record at 4:05 p.m.		Services"?
1	BY MS. HURST:	17	
			Does that sound right? A Sorry?
18	Q Do you have an answer for the question?	18	•
19	A If you could ask me the question again.	19	Q Page 7.
20	Q Other than with respect to this lawsuit,	20	A Page 7.
	have you seen a document where somebody was	21	Q Page 7 of the deposition designation.
1	asking asserting intellectual property interests	22	A It's Number 3. Is that right?
	against Google in respect to Android?	23	Q Correct.
24	MS. ANDERSON: Same objection. Same	24	A I'm just reading to myself. Ignore me.
25	instruction.	25	Yes.
	Page 250		Page 252
		l .	
1	THE WITNESS: So I think I remember seeing	1	Q All right.
	THE WITNESS: So I think I remember seeing something from a company called Android or Android	1 2	Q All right. So what is Google Play Services?
2			_
2 3	something from a company called Android or Android	2	So what is Google Play Services?
2 3 4	something from a company called Android or Android Wear in the watch space. I think they were based	2 3	So what is Google Play Services?  A Google Play Services is somewhat actually
2 3 4 5	something from a company called Android or Android Wear in the watch space. I think they were based out of Florida, and they I remember vaguely	2 3 4 5	So what is Google Play Services?  A Google Play Services is somewhat actually similar in concept to what we talked about earlier
2 3 4 5	something from a company called Android or Android Wear in the watch space. I think they were based out of Florida, and they I remember vaguely recall seeing something about that.	2 3 4 5 6	So what is Google Play Services?  A Google Play Services is somewhat actually similar in concept to what we talked about earlier about the Google mobile platform. It's it's a
2 3 4 5 6 7	something from a company called Android or Android Wear in the watch space. I think they were based out of Florida, and they I remember vaguely recall seeing something about that. BY MS. HURST:	2 3 4 5 6 7	So what is Google Play Services?  A Google Play Services is somewhat actually similar in concept to what we talked about earlier about the Google mobile platform. It's it's a layer on top of Android, a set of APIs on top of
2 3 4 5 6 7	something from a company called Android or Android Wear in the watch space. I think they were based out of Florida, and they I remember vaguely recall seeing something about that. BY MS. HURST: Q Did you did Google agree to pay them	2 3 4 5 6 7	So what is Google Play Services?  A Google Play Services is somewhat actually similar in concept to what we talked about earlier about the Google mobile platform. It's it's a layer on top of Android, a set of APIs on top of Android, which is a collection of various Google
2 3 4 5 6 7 8 9	something from a company called Android or Android Wear in the watch space. I think they were based out of Florida, and they I remember vaguely recall seeing something about that. BY MS. HURST: Q Did you did Google agree to pay them any money?	2 3 4 5 6 7 8	So what is Google Play Services?  A Google Play Services is somewhat actually similar in concept to what we talked about earlier about the Google mobile platform. It's it's a layer on top of Android, a set of APIs on top of Android, which is a collection of various Google products or functionalities or technologies.  Q So when did
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	something from a company called Android or Android Wear in the watch space. I think they were based out of Florida, and they I remember vaguely recall seeing something about that. BY MS. HURST: Q Did you did Google agree to pay them any money? MS. ANDERSON: Caution the witness to the extent responding to the question would require you to reveal something you only know from a communication of counsel, I instruct you not to answer on grounds of privilege. But otherwise, you may answer. THE WITNESS: I can't answer on the grounds of privilege. MS. HURST: I, again, disagree, either with the propriety of that instruction or the ability of this witness to come here and answer basic questions about Topic 8. Since it's obviously a waste of time for me to keep asking them, I'm going to stop now, but we're going to move to compel on Topic 8 and probably on significant aspects of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	So what is Google Play Services?  A Google Play Services is somewhat actually similar in concept to what we talked about earlier about the Google mobile platform. It's it's a layer on top of Android, a set of APIs on top of Android, which is a collection of various Google products or functionalities or technologies.  Q So when did  When did Google Play Services come into existence?  A I'm trying to remember the timeline. I think it was 2011 or 2012, something like that.  Q All right.  So when you say that Google Play Services is a layer of functionality or technologies, what do you mean?  A It's a set of APIs and also features that third- and first-party developers can take advantage of to do something in their application. So I'll give you an example.  One of the features that we provide through Google Play Services is the ability for an

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- 1 want to draw a map. There aren't that many
- 2 companies in the world that has the level of
- 3 detail of the map of the world as Google does, so
- 4 we provide that as functionality, so that let's
- 5 say your taxi hail -- hailing app can draw a map
- 6 so that it can show where the cab is, you know,
- 7 things like that. That's all provided through
- 8 Google Play. That's one of the ways in which that
- 9 functionality is provided through Google Play
- 10 Services.
- 11 Q So when you said "map functionality,"
- 12 you're talking about the Google Play -- sorry, the
- 13 Google Maps application functionality or something
- 14 more general?
- 15 A A subset of the Google Maps
- 16 functionality. So there are two ways in which --
- 17 in the context of our conversation here, there are
- 18 two ways in which maps can be displayed. Let's say
- 19 I'm going to use Uber as an example, but I don't
- 20 actually know if Uber is using Google Play
- 21 Services, but let's use them as an -- as an example
- 22 of a taxi app. If you're -- if you're hailing a
- 23 cab and you want to see yourself on a map to verify
- 24 that you're calling a cab at the right location,
- 25 makes sense to show a map. One way to do that is Page 254

- 1 provides. Google Play Services provides features
- 2 that are on top of Android that are specific and
- 3 unique to Google, whereas Android provides an
- 4 operating system where that's a generic that isn't
- 5 tied to any specific company.
- 6 There are many things -- just as a
- 7 computer science operating system, platform
- 8 development perspective, there are many things
- 9 that just simply do not belong in the Google Play
- 10 Services layer. They really belong at the
- 11 operating -- the base operating system layer.
- These are things like the concept of an
- 13 application, to begin with. What is an
- 14 application? How does an app developer even start
- 15 the execution of their code? How do they provide
- 16 an icon for their application? How do they give
- 17 their application a name? What happens when a
- 18 user taps on their icon, or what happens when a
- 19 user switches to another application and their
- 20 application is moved to the background, or how do
- 21 they draw anything on the screen? How do they
- 22 post notifications, and so on and so forth.
- 23 There's a long list of functionality that is sort
- 24 intrinsic in what an operating system is, and I
- 25 would argue that that functionality is -- there

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- 1 to take you away from the Uber application and
- 2 launch the Google Maps application or any other
- 3 application. But that would be pretty clumsy; as a
- 4 user experience, that would be pretty weird because
- 5 now you've lost your place in the application and
- 6 the user can get confused.
- 7 So what Google Play Services provides is
- 8 a way for -- in this hypothetical example, Uber to
- 9 show a map directly in its own application. That
- 10 map happens to be coming from the same place that
- 11 the map for Google Maps would come from, but it's
- 12 a way for an application developer to do it in
- 13 their own app without losing the user to a
- 14 different app.
- 15 Q Isn't it true that over time Google has
- 16 moved functionality from other parts of Android into
- 17 the Google Play Services part of Android?
- 18 A I wouldn't -- I would not agree with that
- 19 statement.
- Q What don't you agree with in that
- 21 statement?
- 22 A There are many -- the Android operating
- 23 system is -- is pretty big in terms of its API
- 24 and -- and functional sort of feature set. It's a
- 25 pretty broad set of APIs and features that it

- 1 are more APIs, for instance, than there are in
- 2 Google Play Services, and it's not like certain
- 3 things can be moved from one to the other. It
- 4 just -- from a computer science perspective, that
- 5 just wouldn't make sense.
- 6 Q Well, so isn't it true that in 2008,
- 7 Google released Android under a license called
- 8 Apache; is that correct?
- 9 MS. ANDERSON: Objection; form.
- 10 THE WITNESS: There was -- the SDK launch
- 11 was in 2007 and the first device of Android was,
- 12 yes, 2008.
- 13 BY MR. RAMSEY:
- 14 Q Are you aware of something called the
- 15 Android Open Source Project?
- MS. ANDERSON: Objection; form, beyond the
- 17 scope.
- 18 THE WITNESS: I have -- I am familiar with
- 19 Android Open Source, yes.
- 20 BY MR. RAMSEY:
- 21 Q And the Android Open Source Project was --
- 22 was released in 2008; is that true?
- MS. ANDERSON: Beyond the scope.
- 24 THE WITNESS: I think that's right. It
- 25 makes sense that it would be released in 2008 with

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2

- 1 the first device. I can't remember if there's
- 2 anything we did with regard to AOSP, or Android Open
- 3 Source Project, in 2007, but certainly by 2008, it
- 4 had been released, yes.
- 5 BY MR. RAMSEY:
- Q Okay.
- 7 So as part of the Android Open Source
- 8 Project in 2008, isn't it true that Android's
- 9 Calendar API code was also released as part of
- 10 Android Open Source Project?
- 11 MS. ANDERSON: Beyond the scope.
- THE WITNESS: I don't know. 12
- 13 BY MR. RAMSEY:
- O So let me ask you this about Google Play
- 15 Services: Is Google Play Services a collection of
- 16 APIs or something different?
- 17 MS. ANDERSON: Objection; form.
- 18 THE WITNESS: It's -- at a minimum, it's a
- 19 collection of APIs and functionality that isn't
- 20 necessarily APIs. So it's -- it's more than a
- 21 collection of APIs.
- 22 BY MR. RAMSEY:
- Q What type of functionality beyond APIs is
- 24 in Google Play Services?
- 25 A Let me think of an example. Typically

1 system-related APIs. Those APIs are open sourced as

- 2 part of Android.
- 3 BY MR. RAMSEY:
- Q But in order to create an application for
- 5 the Android operating system, a developer may use
- 6 the APIs embodied within Google Play Services?
- 7 MS. ANDERSON: Objection; form.
- 8 THE WITNESS: I think the operative word
- 9 there is "may." They don't have to. It's not
- 10 mandatory that they do. They can choose to if they
- 11 want, let's say, to use our services, Google
- 12 services, to draw a map, but they could certainly go
- 13 to someone else's SDK and get a map from someone
- 14 else as well. So it's purely sort of based on
- 15 developer choice.
- 16 BY MR. RAMSEY:
- Q Why does Google choose to keep its Google 17
- 18 Play Services' APIs secret?
- 19 MS. ANDERSON: Objection; form.
- 20 THE WITNESS: Well, the APIs themselves
- 21 are not secret by definition, because the APIs need
- 22 to be made available to developers so that they can
- 23 develop against it. So the APIs are not secret.
- 24 BY MR. RAMSEY:
- 25 Q So why does Google elect to keep its

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- 1 these are functionalities that aren't best
- 2 expressed as an application because if it was best
- 3 expressed as an application, it would just be an
- 4 application. These are functionalities like -- oh,
- 5 security related. We have a functionality that if
- 6 the user opts in, we'll scan their device on a
- 7 regular basis to make sure there's no malware or,
- 8 you know, viruses, things like that. That
- 9 functionality is built into and deployed through
- 10 Google Play Services, not necessarily an API for
- 11 third parties to take advantage of. It's just a
- 12 sort of functionality that -- that is delivered
- 13 that way.
- Q Does Google release the code for Google
- 15 Play -- for Google Play Services openly for anybody
- 16 to do what they want with?
- A No. Google Play Services, much like most
- 18 of Google's proprietary applications, are not open
- 19 sourced.
- 20 Q So they're Android-related APIs within
- 21 Google Play Services that are proprietary?
- 22 MS. ANDERSON: Objection; form.
- 23 THE WITNESS: I wouldn't say they're
- 24 Android related. These are APIs that work on top of
- 25 Android, but they are not Android operating
  - Page 259

- 1 Google Play Services' APIs proprietary?
- MS. ANDERSON: Objection; form. 3 THE WITNESS: Again, the APIs themselves
- 4 are not secret or proprietary. These are
- 5 well-documented APIs.
- 6 BY MR. RAMSEY:
- Q If I'm a company wanting to -- to change
- 8 the Google Play Services' APIs, would Google just
- 9 allow me to come without any license and do that?
- 10 MS. ANDERSON: Objection; form.
- 11 THE WITNESS: They wouldn't be able to
- 12 because they don't have source code to the
- 13 implementation of Google Play Services.
- 14 BY MR. RAMSEY:
- Q So why doesn't Google just provide any 15
- 16 company that comes and asks for it the Google Play
- 17 Services' source code including the APIs?
- 18 MS. ANDERSON: One minute. Objection to
- 19 form and a little bit beyond the scope for this
- 20 witness on Topic 3 given the limitation of the part
- 21 of it that he's designated on, but you may answer of
- 22 your personal knowledge.
- 23 THE WITNESS: I didn't say the APIs
- 24 were -- were proprietary, but I think your question
- 25 indicated that I said that.

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- 1 What I -- what I will say is, there's a 1 similar sort of concept in terms of layering. 2 distinction between Android, the generic operating 2 BY MR. RAMSEY: 3 system, which is fully open sourced. Again, Android 3 Q So in 2008, why was Google's Calendar code 4 doesn't know anything about any particular company. 4 released as part of the Android Open Source Project 5 It doesn't know about Google, it doesn't know about 5 and later removed from that Android Open Source 6 Oracle, it doesn't know about Yahoo, Microsoft, 6 Project? 7 anyone. It's a generic operating system. 7 MS. ANDERSON: Objection; form, beyond the But there are many services that customers 8 scope. 9 expect these days, like mapping, that does require 9 THE WITNESS: I don't know if that's 10 some company to be hosting this information. So, 10 actually what happened. But if I were to take your 11 for example, Google Maps, there's an application 11 word for it that that's what happened, I would say 12 called Google Maps, but there's also a server back 12 it's because there was a realization that -- that 13 end that is powering the Google Maps experience. 13 certain things that are not -- that are specific to 14 None of that is open sourced on any platform, and so 14 Google may have gone into the generic operating 15 Google Play Services, because it is similar in 15 system portion, violating the layering that I 16 concept to that type of operation where it's a 16 mentioned, and maybe that was correct. 17 specific thing about Google that relies on Google 17 Again, I don't know the specific of this, 18 back ends, we've made the decision as a company to 18 so I'm speculating for you, but that would be a 19 keep that implementation private so that we can 19 computer science answer. 20 update it and change it in certain ways to make it 20 BY MR. RAMSEY: 21 more efficient or -- or add more functionalities. 21 Q So it's true that the Google Calendar 22 But the -- but we make the APIs publicly 22 functionality has been moved to Google Play Services 23 available so that developers may benefit from that 23 from the Android Open Source Project, right? 24 functionality without being burdened with the MS. ANDERSON: Objection; form. 24 25 knowledge of how we've done it. 25 THE WITNESS: I did not say that. I said
  - Page
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- Page 264

#### 1 BY MR. RAMSEY:

- 2 Q Why aren't the APIs within Google Play
- 3 Services contained lower in the stack in Android?
- 4 MS. ANDERSON: Objection; form.
- 5 THE WITNESS: Again, this comes back to, I
- 6 think, operating system sort of computer science
- 7 principles. Typically when you're developing
- 8 software in general but especially operating
- 9 systems, you pay close attention to how you're
- 10 layering various functionalities.
- 11 At a core operating system level, things
- 12 like the notion of an application, what happens when
- 13 you launch an application and so on, what I
- 14 mentioned a few minutes ago, those are core
- 15 operating system concepts.
- But when it comes to specific apps and
- 17 services that are tied to Google, again, those
- 18 are -- those are very specific to Google and they
- 19 are built on top of the operating system. So
- 20 they're higher up in the stack, and so it makes
- 21 sense from a computer science perspective to
- 22 separate these things out.
- Just like an application isn't built into
- 24 the OS. An application is, by definition, a thing
- 25 that's on top of the operating system. It's a

- 1 hypothetically if I were to take your word for it,
- 2 but I don't actually know if that happened.
- 3 BY MR. RAMSEY:
  - Q So did you do any investigation as to the
- 5 nature, purpose and operation of Google Play
- 6 Services before today?
- 7 MS. ANDERSON: Objection; form.
- 8 THE WITNESS: Well, I'm very familiar with
- 9 Google Play Services. I was actually one of the
- 10 people that came up with the concept and idea of it.
- 11 I have a patent on it, in fact, so I'm very familiar
- 12 with it over my career at Google, so I would -- I
- 13 would say that was -- that's how I prepared for it.
- 14 BY MR. RAMSEY:
- 15 Q So do you think that intellectual property
- 16 relating to this -- this development platform known
- 17 as Android is important? Is that important to
- 18 Google?
- 19 MS. ANDERSON: Objection; form, beyond the
- 20 scope.
- 21 THE WITNESS: Say that again. Sorry.
- 22 BY MR. RAMSEY:
- Q Would you say that intellectual property
- 24 relating to the development platform known as
- 25 Android is important to Google?

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1 1 three, four years ago so I don't remember all the MS. ANDERSON: Objection; form, beyond the 2 scope. 2 details, but I do believe mapping, the APIs that I 3 discussed earlier about Maps, was one of them. I'm 3 THE WITNESS: Intellectual property 4 sure there were others, but I don't -- I don't 4 related to the development of Android is important 5 to Google. Well, I don't know how to answer that. 5 remember the exhaustive list. 6 I mean, of course, following all laws and -- and Q So what year, again, was Google Play 7 Services first released? 7 sort of doing the right thing is important for 8 Google in general, and so, for instance, there was a A I think it was 2011 or 2012, something 9 around then. 9 conversation earlier today about the GPL, and I 10 Q So when Google Play Services was first 10 mentioned we have processes in place to make sure we 11 released, was there any search functionality enabled 11 follow the GPL and so on, so we take -- we take 12 or contained within Google Play Services? 12 concerns like that very seriously, yes. 13 BY MR. RAMSEY: 13 A I'm not sure. I don't think so, but I'm Q So my question was actually -- you 14 not 100 percent sure. 15 Q Is there any search functionality enabled 15 agree -- you mentioned you have a patent that 16 relates to Google Play Services, correct? 16 or contained within Google Play Services today? 17 A Yes, I believe so. 17 A I did mention that, yes. Q And Google Play Services is related to the 18 Q So why -- why has there been a change to 19 include the enablement or inclusion of search 19 Android platform in some way, correct? 20 functionality in Google Play Services today? 20 MS. ANDERSON: Objection; form. 21 THE WITNESS: Incorrect. Google Play A Well, the search functionality that I'm 22 thinking of that's built into Google Play Services, 22 Services is separate from the Android platform. 23 that I think is built into Google Play Services 23 BY MR. RAMSEY: 24 today, is something that's known as icing, just 24 Q All right. 25 like icing on the cake. It is a way for 25 So can you use Google Play Services Page 266 Page 268 1 independently of the Android platform? 1 applications to have some algorithm that's built 2 MS. ANDERSON: Objection; form. 2 into Google Play Services do a local search --3 THE WITNESS: I don't think so. 3 local indexing on the device for you. So it's not 4 BY MR. RAMSEY: 4 really Google Search on the Web. It's more 5 Q Okay. 5 searching for contents on your device. So an 6 So the only function of Google Play 6 example I could give is if you are building, let's 7 Services is in connection with the Android platform? 7 say, an e-mail application and you want to provide A It is a service or functionalities built 8 a way for your users to look for their e-mails on 9 on top of the Android platform. But that's kind of 9 their device, even if they're not connected to the 10 like saying, you know, the Facebook app for Android 10 network, icing is a -- is a sort of functionality 11 is part of Android because it's built on top of 11 that could provide them that functionality. 12 Android. I don't think anyone would agree with 12 Q There have been public reports that 13 that statement. 13 there's a number of functionalities that were And very similarly, the Google Play 14 initially included in the Android Open Source 15 Services is something on top of the Android 15 Project that have since been removed and added to 16 platform. Doesn't mean that it's part of the 16 Google Play Services' proprietary code. 17 Android platform. 17 Are you aware of those? Q So what functionalities were contained in 18 MS. ANDERSON: Objection; form, beyond the 19 the Google Play Services code when it was the first 19 scope. 20 released? 20 THE WITNESS: I've seen some articles on 21 MS. ANDERSON: Objection; form. 21 Google Play Services that I've mentioned a number of 22 THE WITNESS: What functionality? 22 things. I can't specifically remember an article, 23 BY MR. RAMSEY: 23 but I feel like I've read some things like that. 24 Q Correct. 24 BY MR. RAMSEY: 25 A I don't remember. It was, you know, 25 Q So why over time is Google removing code

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1 from Android Open Source Project and moving that 1 Google I/O. 2 functionality into Google Play Services? 2 Some examples include material design. We 3 MS. ANDERSON: Same objections. 3 came up with a new user interface, user design THE WITNESS: Yeah. So I think, again, 4 guideline and paradigm. There are a lot of APIs 5 that there's an assumption built into your statement 5 associated with material design. I don't remember 6 that I don't necessarily agree with. Where it makes 6 if this was in L or M, M for marshmallow, but we 7 sense per the description I gave earlier, you know, 7 recently added new APIs that enables application 8 for an operating system, there are things that make 8 developers to, when -- when a word is selected on 9 sense for an operating system. There are certain 9 the screen, to pop up a little menu right next to 10 things that don't make sense for an operating 10 the word so that they could quickly -- users could 11 system. Those things that are Google specific 11 quickly take action. So on and so on. The list 12 belong in Google Play Services. If it's application 12 goes on and on. 13 specific, it belongs in the application. 13 BY MR. RAMSEY: 14 So an example I would give is, you know, O So is it true that you, Google, have 15 functionality that lets you "Like" something 15 included APIs within Android that would not be 16 probably belongs in the Facebook app because that's 16 understood in the Java programming environment? 17 Facebook's concept. Doesn't belong in operating 17 MS. ANDERSON: Objection; form, beyond the 18 system, certainly doesn't belong in Google Play 18 scope. 19 Services because that's Facebook's. And so it makes 19 THE WITNESS: I'm trying to understand 20 sense for that to live in the Facebook app. 20 your question. APIs that would not --Similarly, functionality that requires or 21 BY MR. RAMSEY: 22 depends on Google servers, like mapping, makes sense 22 Q Let me rephrase my question. 23 in Google Play Services and not the base operating 23 You've just stated that a number of new 24 system, because the base operating system doesn't 24 APIs that Google has added to Android, correct? 25 know anything about any specific company or any 25 A Correct. Page 270 Page 272 Q And those APIs, you agree, are not in the 1 servers or anything like that. So that's -- that's 2 just the basic sort of mental model that we use when 2 Java programming platform; those are -- those are 3 new and different? 3 we design APIs and functionalities; we put it where 4 MS. ANDERSON: Objection; beyond the 4 it makes sense from a computer science perspective. 5 scope. The other thing I would point out is while 6 we've added more and more functionality into Google 6 THE WITNESS: Well, I'm talking about the 7 Android platform right now. Not talking about any 7 Play Services to make the developer experience more 8 efficient, we've also been adding a lot of APIs to 8 other platform. 9 BY MR. RAMSEY: 9 Android as well. So, for instance, when the Android 10 10 platform L -- I think it was L -- that launched, Q Okay. 11 Lollipop, we talked about how we've added 3,000 new 11 So simple question: Just are the new APIs 12 APIs to Android itself. So just as we've been 12 that you've just asserted have been added to Android 13 adding functionality into Google Play Services, 13 also present, to your knowledge, in the Java 14 platform? 14 we've also been adding functionality directly into 15 15 Android as well. MS. ANDERSON: Beyond the scope. THE WITNESS: Not that I'm aware of. 16 BY MR. RAMSEY: 16 Q Give me some examples of the 3,000 APIs 17 BY MR. RAMSEY: 18 that you just asserted have been added to Android. 18 Q So do you understand something about Java 19 programming? Do you have a general familiarity? 19 20 MS. ANDERSON: Objection; beyond the 20 A Very, very general. 21 21 scope. Q Okay. THE WITNESS: Sure. Happy to do that. 22 Have you ever written a program in the 23 Java platform? 23 There's also a long keynote session on this that --A Like a "Hello World" type of thing 15 24 there's a recording of this on the Internet as well.

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25 We made a big deal about it a year and a half ago at

25 years ago or something like that.

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A I think I do. 1 Q Okay. 2 So let's say you were writing a Java 2 Q Okay. 3 program, your "Hello World" that needed to use the 3 Search, Calendar, Cloud Messaging, Chrome, 4 materials API and you were writing that code. 4 Context, Keyboards, Music, Gallery, Wallet. 5 5 Can you make that assumption? Do you understand that list of 6 MS. ANDERSON: Beyond the scope. 6 functionalities that I've just mentioned in Android? 7 7 THE WITNESS: Yeah, that doesn't compute. MS. ANDERSON: Objection; form. 8 If you're using material design, you're most likely 8 THE WITNESS: Do I understand it as in in 9 going to be doing it with the Android platform. 9 isolation do I know what Chrome is? Yes, I know 10 BY MR. RAMSEY: 10 what Chrome is. I forget the other ones. Keyboard, 11 Q Okay. 11 I think I know it. It's pretty vague, though. You 12 So this material API, it's your 12 know, keyboard could refer to a multiple -- multiple 13 understanding that it would not be understood if --13 number of things. So I'm not sure what exactly it 14 if -- over by the Java platform; is that right? 14 means. Some are kind of vague, but generally. MS. ANDERSON: Objection; form, beyond the 15 15 Maybe you can ask more specific questions 16 and then we can go from there. 16 scope. 17 THE WITNESS: I feel like we're comparing 17 BY MR. RAMSEY: 18 apples and oranges. I'm talking about Android, Q Well, the list I've just mentioned, 19 you're talking about something that isn't Android. 19 Search, Calendar, Cloud Messaging, Chrome, Contacts, 20 They're not related. 20 Keyboards Music Gallery and wallet, were all code 21 BY MR. RAMSEY: 21 that was initially released as part of the Android Q So somebody who used some of the new 22 Open Source Project, correct? 23 Android APIs that you've mentioned would not be able 23 MS. ANDERSON: Objection; form, beyond the 24 to take that program and make it work over on Java 24 scope. 25 platform; is that right? 25 THE WITNESS: I don't -- actually, I don't Page 274 Page 276 1 MS. ANDERSON: Objection; beyond the 1 agree with that. 2 scope, form. 2 BY MR. RAMSEY: THE WITNESS: If the Java platform isn't 3 Q Okay. 4 Android, then, no. I'm talking about Android APIs So are the functionalities I just 4 5 at the moment. 5 mentioned code that Google holds proprietary in its 6 BY MR. RAMSEY: 6 Android environment? Q And these -- these large number of new 7 MS. ANDERSON: Objection; form, beyond the 8 APIs that you've -- you've just mentioned in 8 scope. 9 Android, is Google willing to give those to Oracle 9 THE WITNESS: So, for instance, Chrome, I 10 to use? 10 don't think was initially open source, but then has 11 MS. ANDERSON: Objection; form and scope. 11 since been open source. So it's actually the THE WITNESS: Well, we've -- we've open 12 12 opposite of what you're saying. If I remember 13 sourced the implementations of all of those APIs as 13 correctly, it went in the opposite direction of what 14 part of the Android Open Source Project. So it's 14 you're asserting, which is that it was initially 15 anyone can use it. 15 private, but then it became public. 16 BY MR. RAMSEY: 16 That's for Chrome, the browser. Keyboard, 17 Q Okay. 17 I think I understand where you're headed here now. 18 And so -- I want to go back to Google Play 18 I don't agree with it, but I understand where you're 19 Services for a moment. 19 headed, which is there was an open source 20 So are you --20 implementation of the keyboard. There still I'm going to read to you a list of 21 probably is an open source implementation of the 22 functionalities, and I'd like your opinion whether 22 keyboard. We've since created a Google Keyboard 23 these functionalities were -- were -- were first 23 which has special functionality that is specific to 24 code released in the Android Open Source Project. 24 Google, and that's, you know, similar to the 25 Do you understand? 25 conversation we had about Google Play Services. Page 275 Page 277

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- 1 This is a Google product so it's proprietary, but
- 2 there still is an open source keyboard
- 3 implementation that's available for everyone to --
- 4 to take and to modify and -- and play with as well.
- 5 BY MR. RAMSEY:
- 6 Q Is the Google proprietary keyboard
- 7 functionality contained within Google Play Services?
- 8 MS. ANDERSON: Objection; form.
- 9 THE WITNESS: I believe they are
- 10 independent of each other.
- 11 BY MR. RAMSEY:
- 12 Q Is the prior open source keyboard
- 13 implementation that was part of Android Open Source
- 14 Project maintained continually by -- by Google or
- 15 not?
- MS. ANDERSON: Beyond the scope, form.
- 17 THE WITNESS: Specifically on the
- 18 keyboard, I'm not sure. But generally, we try to
- 19 make sure that there is a -- at least an
- 20 implementation of these -- these capabilities in
- 21 open source, even if we've created now versions that
- 22 are specific to Google because it's just good
- 23 engineering practice to do that. And what I mean by
- 24 that is when you're developing an operating system
- 25 and when you're developing APIs, it's important that

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- 1 application-level thing.
- 2 But there are many things that we can do
- 3 to help users type more efficiently if we combine
- 4 knowledge that Google has about the world. Here's
- 5 an example: Pronouns. So when you're typing on a
- 6 keyboard, of course, we could do it just like a
- 7 typewriter where you type one character at a time,
- 8 and the keyboard just dutifully, you know, copies
- 9 what you type into text entry field, but one of the
- 10 innovations that have happened in the world -- I'm
- 11 not saying Android or Google is taking credit for
- 12 this, but one of the things that has happened is
- 13 sort of text prediction. So you type maybe T-H, and
- 14 now the keyboard is suggesting "the" for you or
- 15 "there" for you because it assumes those -- these
- 16 are the words that you're going to type.
- Well that, again, by itself, you don't
- 18 really need Google's help there. You could have a
- 19 big dictionary, a list of words on the device that
- 20 the keyboard can consult, then look up and say "Oh,
- 21 this is probably the word that the person is trying
- 22 to type."
- But what about pronouns, what about
- 24 people's names or names of places or names of events
- 25 or recent -- recent things that have happened?

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- 1 you're able to test out these APIs. And in order to
- 2 test out these APIs, sometimes it's easiest for the
- 3 people who are developing the APIs to build a
- 4 corresponding application to test out their work.
- 5 And so it's good practice for us to have 6 open source equivalents of these to just make sure
- 7 that we're able to validate the APIs on an ongoing
- 8 basis.
- 9 BY MR. RAMSEY:
- 10 Q Why does Google keep its Keyboard
- 11 implementation proprietary?
- MS. ANDERSON: Objection; form, beyond the
- 13 scope.
- 14 THE WITNESS: The Keyboard -- again, there
- $15\,$  are multiple implementations of Keyboard. There
- 16 certainly was an open source version of the
- 17 Keyboard, which was, you know -- it would draw a
- 18 keyboard on the screen -- we're talking about touch
- 19 screen-based devices, right, so it draws a keyboard
- 20 on the screen, it has, you know, the letters of the
- 21 alphabet there, and when a user presses a certain 22 letter, the letter appears on screen. That -- that
- 23 functionality obviously in its -- sort of at its
- 24 core, doesn't require anything about Google. It's
- 25 just an operating system level, sort of an

- 1 These -- it's not practical to have all this in the 2 dictionary on the device at all times.
- 3 But Google certainly knows about these
- 4 things because Google is crawling the Web all the
- 5 time and it knows about things that are happening in
- 6 the world. So these are reasons why we believe
- 7 Google is able to make users' lives -- sort of
- 8 enrich users' lives or simplify their -- their
- 9 tasks. By adding little bit of smarts here and
- 10 there, we can really help users. And -- and that
- 11 API at Google to get the list of sort of common
- 12 trending words is a proprietary API. I'm just using
- 13 that as an example.
- 14 BY MR. RAMSEY:
- 15 Q So you've just given me a long example.
- 16 You've described to me how you believe that Google
- 17 has created code with respect to the Keyboard
- 18 functionality in the Android that is -- that is, you
- 19 believe, to be valuable; is that true?
- 20 A Right. We believe that we are adding
- 21 value by -- in the example that I gave by helping
- 22 users predict or make it easier for users to type.
- 23 The example I gave was pronouns; that may be not in
- 24 the dictionary on the device but that -- that

25 Google on the Web may know about.

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Q And that code with respect to the Keyboard 1 Android. That is a Google service, not really an 2 functionality in Android is something that Google 2 Android thing. 3 holds proprietary? Q Do you have any knowledge whether Google 4 Play Services utilizes the Java APIs that are at A That portion of the Keyboard where it 5 talks to the Google servers to get the latest list 5 issue in this -- this lawsuit? 6 of pronouns, for instance, certainly is a Google MS. ANDERSON: Objection; form, beyond the 7 proprietary technology, yes. 7 scope. Q Why doesn't Google give away, for example, 8 THE WITNESS: I do not know. 9 the Keyboard functionality code that we've just 9 BY MR. RAMSEY: 10 mentioned that it believes is so valuable for users? 10 Q Do you have any idea whether the Java APIs MS. ANDERSON: Beyond the scope. 11 that are at issue in this lawsuit are reproduced 12 THE WITNESS: When you say "we've 12 within the Google Play Services code base? 13 mentioned," you're talking about the example I gave? MS. ANDERSON: Same objections. 14 BY MR. RAMSEY: 14 THE WITNESS: I don't know. 15 O Correct. 15 BY MR. RAMSEY: 16 A Well, that's a business decision on 16 Q Do you know what a class library is? Have 17 Google's part, right? I mean, I guess you could 17 you heard that term? 18 ask the same thing about everything. You could 18 A I've heard of that term. I don't know 19 say, "Well, why doesn't Google open source its 19 what it is. 20 search engine"? 20 Q Okay. Q Why doesn't Google open source its search 21 Did you do any investigation to prepare 22 engine within the context of Android? 22 today to determine whether Google Play Services uses 23 A Good question. 23 or relies on the Java APIs that are alleged to have 24 MS. ANDERSON: Beyond the scope. 24 been taken by Google? 25 THE WITNESS: Good question, but it's a 25 MS. ANDERSON: Same objections. Page 282 Page 284 1 business decision and, you know, I think we've done THE WITNESS: I have not looked at Java 2 the open source community a huge -- given them a 2 APIs in relation to Google Play Services, no. I'm 3 huge boost by open sourcing Android. This is, I 3 very familiar with Google Play Services as a concept 4 think, one of the biggest open source projects in 4 and as we've talked about. 5 the world. You know, it -- it, you know, deployed 5 BY MR. RAMSEY: 6 in -- in, you know, however many devices we've Q Are you -- are you familiar with the code 7 already talked about. It's a very big deal for the 7 of Google Play Services? 8 open source community, so I feel pretty -- pretty 8 A No. 9 comfortable in -- in sort of how we've been working 9 Q All right. 10 with the open source community. 10 So who on your team is familiar with the 11 BY MR. RAMSEY: 11 code of Google Play Services? A Oh, there are many people. Google Play 12 Q Yet there's still code that relates to 12 13 Android that is -- that Google does not open source. 13 Services is a pretty big project now. So there are 14 It's always a business decision, I think is what you 14 many people who are familiar with bits and piece of 15 said, right, what to open source and what not to? 15 it. I would say there's no single person who knows MS. ANDERSON: Objection; beyond the 16 it in its entirety. 16 17 scope. 17 Q You said that you were one of the people 18 THE WITNESS: Again, you used the word 18 who came up with the concept for Google Play 19 "relate to Android." I slightly object to that 19 Services, I believe; is that right? 20 phrasing. I'll use the Facebook example again, 20 A Something like that. I did say something 21 right? Facebook hasn't necessarily, as far as I 21 like that, yes. Q When you were creating Google Play 22 know, open sourced their Facebook app. It runs on

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23 Services, did you take any steps to make sure that 24 the Java APIs asserted in this case were not used

25 without authorization?

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23 Android. Does that relate to Android? I don't

24 know. I mean, it's a Facebook app, right? So 25 similarly, Google has applications that run on

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- 1 MS. ANDERSON: Objection; form.
- 2 THE WITNESS: No, I didn't -- I didn't --
- 3 I was not thinking about the Java APIs when I was
- 4 thinking about Google Play Services.
- 5 BY MR. RAMSEY:
- 6 Q Do you have any understanding of why the
- 7 Java APIs that are asserted in this case are used
- 8 within the Android platform?
- 9 MS. ANDERSON: Objection; form and beyond 10 the scope.
- 11 THE WITNESS: Can you repeat that
- 12 question?
- 13 BY MR. RAMSEY:
- 14 Q Do you have any understanding of why the
- 15 Java APIs asserted in this case are used within the
- 16 Android platform?
- 17 MS. ANDERSON: Objection; form and beyond
- 18 the scope.
- 19 THE WITNESS: Why the Java APIs asserted
- 20 in this case are used in the Android platform. Do I
- 21 have an understanding of that? No.
- 22 BY MR. RAMSEY:
- 23 Q Is it true that --
- Isn't it true that you were one of the
- 25 people who initially helped develop the Android

- 1 think about Google Play Services?
- 2 A I started thinking about -- personally --
- 3 now I'm talking about me personally now, started
- 4 thinking about Google Play Services as I
- 5 realized -- this was, as I pointed out, Google --
- 6 sorry, Android launched -- the first Android device
- 7 launched in 2008, October 2008. And Google Play
- 8 Services, as I mentioned earlier, I think, launched
- 9 in 2011 or 2012, something like that. So a number
- 10 of years had passed since the launch of Android.
- One of the realizations over those few
- 12 years that I had was that a lot of developers were
- 13 looking for not only basic operating system-type
- 14 APIs, that I've discussed at length, but also
- 15 additional functionality, like mapping, that
- 16 really the only way we could think of providing
- 17 was through something like Google Play Services
- 18 because it just didn't make sense for us to build
- 19 that type of functionality, like mapping, into the
- 20 base operating system, for all the reasons I
- 21 mentioned earlier.
- 22 Q Does the existence of Google Play Services
- 23 help Google combat fragmentation of Android?
- 24 MS. ANDERSON: Objection; form.
- THE WITNESS: Which form of fragmentation

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- 1 platform back in 2006 and thereafter?
- 2 MS. ANDERSON: Beyond the scope.
- THE WITNESS: If anyone in Mountain View
- 4 heard you ask that question, they would be laughing
- 5 right now. I haven't written a line of code since
- 6 I've been at -- since I've been at Google.
- 7 BY MR. RAMSEY:8 Q All right.
- 9 You were involved, at the very least, in
- 10 facilitating the development of Android back in
- 11 2006, correct?
- MS. ANDERSON: Objection; form, beyond the
- 13 scope.
- 14 THE WITNESS: Facilitating, I guess, in
- 15 the sense that I was part of the team; more on the
- 16 management side. We talked about my career
- 17 progression earlier, joining as a technical program
- 18 manager and getting promoted subsequently, yes.
- 19 BY MR. RAMSEY:
- 20 Q At that time, did -- in 2006 was there any
- 21 discussion of Google Play Services?
- MS. ANDERSON: Beyond the scope.
- 23 THE WITNESS: In 2006, no.
- 24 BY MR. RAMSEY:
- Q What was the genesis of why you started to

- 1 are you referring to now?
- 2 BY MR. RAMSEY:
- $3\,$   $\,$   $\,$  Q  $\,$  So, for example, different OEMs who have
- 4 different -- slightly different implementations of
- 5 Android on their phones.
- 6 MS. ANDERSON: Objection; form.
- 7 THE WITNESS: Not really. That certainly
- 8 wasn't the goal, but -- even if it was the goal,
- 9 which it wasn't, but even if it were the goal, it --
- 10 it doesn't help. That's not -- that's not what it's
- 11 meant to do.
- 12 BY MR. RAMSEY:
- 13 Q Is there any form of fragmentation along
- 14 any dimension that Google Play Services helped to
- 15 combat?
- 16 A There is one -- one area where Google
- 17 Play Services does help, which is that, again,
- 18 being a layer on top of the base operating system
- 19 that is Android, it's also deployed differently
- 20 than Android, the OS, so the Android operating
- 21 system is open source, it's shared with
- 22 manufacturers. Manufacturers take the source code
- 23 for Android, and they make their modifications and
- 24 they build the device and going through CDD and
- 25 CTS, as we talked about earlier.

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1 nutshell one of the reasons why they don't update. 1 That means the manufacturers are largely 2 in control of the software of that device, the 2 I'll just add another reason, which is any 3 time you try to update software on phones, of 3 Android software of that device. So they're 4 responsible for launching it, they're responsible 4 course, you want to make sure that you're improving 5 for maintaining it and updating it and so on. The 5 the software and not causing regressions in 6 nice thing about Google Play Services is at least 6 functionality, and so manufacturers and also 7 operators spend a lot of time testing the software, 7 for the portions of functionality and APIs that 8 and that test cycle overhead is also another reason 8 are included in Google Play Services, we are able 9 why many manufacturers and operators don't want to 9 to update it, update them independent of the 10 update devices. So it's a delicate balance. 10 operating system. 11 So the example I gave earlier about 11 On the other hand, you know, a lot of 12 customers do want the latest, so they get a lot of 12 security, you know, how there's functionality 13 built into Google Play Services that help with 13 consumer demand for it, so it's a balancing act for 14 a lot of these manufacturers. 14 detecting malware on your device. If we ever 15 BY MR. RAMSEY: 15 develop new technologies -- and we do this all the 16 time -- that help us get better at detecting Q So Google Play Services helps Google deal 17 with version fragmentation among different devices 17 malware, we're able to update that functionality 18 irrespective of the base operating system or what 18 running Android; is that true? A A tiny sliver of it. And what I mean by 19 the manufacturer does. So in that sense, you 19 20 "tiny sliver" is Google Play Services, as I've 20 know -- I guess version fragmentation, you're 21 asking what form of fragmentation. Version 21 explained earlier, is not the operating system. 22 It's on top of the operating system. So it's not 22 fragmentation is one -- one sort of slight sliver 23 like through Google Play Services we can update the 23 of it, Google Play Services does help. 24 actual operating system. So the operating system Q So when Google releases a new version of 25 is the operating system. It can't be updated 25 Android, why don't all the OEMs update to the newest Page 290 Page 292 1 version of the Android operating system on their 1 unless the manufacturer does something about it. 2 devices? 2 But at least the portion that's included -- the 3 3 portions that are included in Google Play Services, MS. ANDERSON: Beyond the scope. THE WITNESS: We would certainly love them 4 we can update. 5 to. They -- they don't because they are not --5 Q So when manufacturers of phones take 6 that's not sort of the business that they've 6 Android source code and make it their own, make 7 historically been in. You know, when you look at 7 changes to it, do they contribute that back to the 8 device manufacturers historically, before 8 open source community under any license, or do they 9 keep that as their competitive edge against other 9 smartphones, you know, if you bought a smartphone 10 or -- sorry -- a feature phone back in the '90s, for 10 phone makers? 11 example, you bought the phone and that was it. You 11 MS. ANDERSON: Objection; form, beyond the 12 weren't going to get new software for the phone. It 12 scope. 13 was just kind of you bought it, and that's what it 13 THE WITNESS: It's case-by-case. Some 14 manufacturers like to contribute things back more 14 was until you got a new phone. 15 And that's the business model that these 15 than others. It's really a business and technical 16 manufacturers have been in. The notion of devices 16 decision on their part. 17 updating themselves and improving over time, while I 17 BY MR. RAMSEY: 18 think that everyone would agree is a great notion, 18 Q Does Samsung contribute their changes to 19 certainly I do, for these manufacturers, it's tough 19 Android? For example, do they post it on the Web 20 because they're not staffed that way. Their 20 someplace for anybody to use and tinker with? 21 21 costs -- you know, it costs money for them to update MS. ANDERSON: Same objections. 22 devices that they've already sold. And so from 22 THE WITNESS: Two things: When 23 their perspective, they look at this as cost adder 23 manufacturers contribute their code, they usually 24 contribute it to the Android Open Source Project, so 24 that many of them don't want to incur, which is kind 25 of the sad situation. So that's basically in a 25 it's not just on some random website. It's, you

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1 know, by -- by definition, when they contribute it, 1 (Reporter clarification.) 2 it becomes sort of a part of the Open Source Project 2 THE WITNESS: Phablet, P-H-A-B-L-E-T. The 3 going forward. 3 Samsung Note series of phablets comes with a stylus, Samsung has certainly done that in the 4 a little pen, that you can use to draw on the -- on 5 past, but it doesn't mean they've done it for all 5 the phablet. 6 their technology. The Android operating system to date 7 BY MR. RAMSEY: 7 doesn't have a notion of stylus or pen input. So Q Are you aware of specific instances where 8 Samsung have created APIs to enable not only their 9 any phone manufacturer held back some proprietary 9 own apps but third-party apps to do something unique 10 changes to their versions of Android? 10 with the pen. MS. ANDERSON: Same objections. 11 That's an example. I don't know if 12 THE WITNESS: Sure. 12 Samsung would call that a TouchWiz API, but I just 13 don't know what they call it, but I think 13 BY MR. RAMSEY: Q Can you give me just a couple of examples 14 directionally that's kind of what you're asking 15 to help me understand what that means? MS. ANDERSON: Same objection. 16 BY MR. RAMSEY: 17 THE WITNESS: Yeah. An example is 17 Q Okay. 18 TouchWiz. TouchWiz is the name that Samsung gives 18 So APIs such -- regardless of what they're 19 to their user interface on their phone, so when you 19 called that are developed, built into the Android 20 buy a Galaxy S6 or any Samsung phone, it looks 20 platform by the OEMs, the phone makers, do you 21 pretty different from other Android devices that the 21 believe it's their intent not to allow other phone 22 user interface does. They've intentionally made the 22 makers to use those -- those developments for their 23 user interface unique to Samsung. They've added new 23 own purposes? So, for example, do you believe that 24 Samsung would allow its proprietary Android APIs to 24 functionality that's unique to Samsung. They're 25 trying to differentiate. They call that TouchWiz. 25 be used by HTC? Page 294 Page 296 1 They don't open source TouchWhiz because by 1 MS. ANDERSON: Objection; form, beyond the 2 definition, that is what they're trying to 2 scope. 3 THE WITNESS: I think it's case-by-case. 3 differentiate with. 4 BY MR. RAMSEY: 4 We've had cases actually where a manufacturer wants Q So does some OEM modification to Android, 5 to make APIs that they pioneered, wants to make 6 such as Samsung's TouchWiz, come with its own APIs, 6 it -- if you will, upstream it to Android and make 7 at least in some instances? 7 it sort of a Android level -- Android-wide standard MS. ANDERSON: Beyond the scope. 8 because the benefit to them is they get a head 9 start. They develop these APIs, and they're very 9 Objection; form. 10 familiar with it. Their device is already supported 10 THE WITNESS: I want to be careful with 11 how I phrase this. I don't know if Samsung would 11 so they get a head start relative to everyone else. 12 12 call their APIs TouchWiz APIs, but there are But at the same time, the benefit to them 13 certainly APIs that Samsung adds on top of Android 13 is they get broader application developer support 14 for these APIs. Again, if you're an application 14 that are unique to Samsung. 15 BY MR. RAMSEY: 15 developer, you may look at an API and say, "Oh, this Q Do they hold, at least some of those, 16 only works on 50 percent of the devices out there." 17 proprietary, to your knowledge? 17 You wouldn't be as interested in supporting them. 18 MS. ANDERSON: Same objections. 18 BY MR. RAMSEY: 19 THE WITNESS: When you say "proprietary," 19 Q So is it fair to say that the OEMs making 20 again, you know, by definition, an API, if you want 20 Android-based phones may make a business decision to 21 developers to use it, you have to publicize the API 21 keep back some of their proprietary APIs or not? 22 or else there's no point. 22 MS. ANDERSON: Objection; form, beyond the So the API that I'm thinking about is 23 scope. 24 stylus, pen input. Note series, Samsung Note series 24 THE WITNESS: It is up to them whether 25 of phablets --25 they want to create APIs that are publicly available

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- 1 or private to their company. It's totally up to
- 2 them.
- 3 BY MR. RAMSEY:
- 4 Q Okay.
- 5 Does Google insist that OEMs who make
- 6 changes to Android in their phones, their versions
- 7 of Android, give that back to Google, or does Google
- 8 respect their business decisions?
- 9 MS. ANDERSON: Same objections.
- 10 THE WITNESS: We absolutely respect their
- 11 business decisions, and, you know, we're happy to
- 12 engage in conversations and give our advice.
- 13 Sometimes our advice -- you know, it's a
- 14 case-by-case thing. We might advise them to keep it
- 15 or we might advise them to open it up, and it's
- 16 really a case-by-case thing. In all scenarios, we
- 17 respect their decision.
- 18 BY MR. RAMSEY:
- 19 Q If an OEM phone maker made the
- 20 determination that it wanted to withhold certain
- 21 development APIs in Android as proprietary, would
- 22 Google respect that choice?
- 23 MS. ANDERSON: Objection; form, beyond the
- 24 scope.
- 25 THE WITNESS: I'm failing to think of a

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- Q What do you know about the Wallet
- 2 functionality in Google Play Services?
- 3 A I think what I know is that there is a
- 4 functionality of it where an application developer
- 5 can in their app use the Wallet service to -- to
- 6 enable people, end users, to buy things.
- 7 So an example might be you're a flower
- 8 shop and you're a florist, and you have developed
- 9 an application for your store. Someone has
- 10 downloaded your app, and now you want to
- 11 deliver -- have your flowers delivered. You can
- 12 use this button that is powered by Google Wallet
- 13 that enables people to buy things, buy, you know,
- 14 flowers basically, in this example, from you. So
- 15 physical goods as opposed to digital sort of
- 16 online goods.
- 17 Q Is it your understanding that the Wallet
- 18 functionality you just described was originally
- 19 released as part of the Android Open Source Project 20 in 2009?
- 21 A Say that again.
- 22 Q Is it your understanding that the Wallet
- 23 functionality that you just described was originally
- 24 released as part of the Android Open Source Project
- 25 in 2009?

1

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- 1 specific case, but if, hypothetically speaking, we
- 2 may not be happy, but we'll certainly respect it.
- 3 BY MR. RAMSEY:
- 4 Q So what other functionalities over time
- 5 have been added between -- to Google Play Services
- 6 between its release and present that you can think 7 of?
- 8 A What other functionality has been added?
- 9 Q Uh-huh.
- 10 A I think at some point in the history of
- 11 Google Play Services we added the capability for
- 12 application developers, similar to the mapping
- 13 example, now show YouTube videos in their apps.
- 14 Q So was that functionality enabling showing
- 15 of YouTube app -- YouTube videos in an app
- 16 originally part of the Android Open Source Project?
- 17 A No. I mean, the YouTube app has always
- 18 been a separate app. So it was never -- to my
- 19 knowledge, it was never something that was part of
- 20 the Android Open Source Project.
- 21 Q Okay.
- Are you aware of some functionality in
- 23 Google Play Services known as Wallet?
- 24 A I know such a thing exists. The detail,
- 25 I'm a little hazy on.

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- A It is not my understanding, no.
- 2 Q All right.
- 3 Do you have any understanding about any
- 4 code that was released as part of the Android Open
- 5 Source Project that was later deprecated and instead
- 6 that functionality was moved into Google Play
- 7 Services?
- 8 MS. ANDERSON: Objection; form.
- 9 THE WITNESS: Any examples of that?
- 10 BY MR. RAMSEY:
- 11 Q Yes.
- 12 A I know it's happened. I'm trying to
- 13 think of specific examples. I can't think of
- 14 specific examples right now, but I do know that
- 15 it's happened. And the reason why I know that is
- 16 because we review each of those cases, which is
- 17 pretty rare, each of those cases very carefully to
- 18 make sure that the reason why we're doing this is
- 19 sort of based on very sound sort of computer20 science techniques and sound sort of business
- 21 decisions that make sense so that we're not taking
- 22 anything away from Android that should belong in
- 23 the Android operating system.
- Q Is it true that Google Play Services gives
- 25 Google more control over the Android platform, in

## Case 3:10-cv-03561-WHA Document 2131-2 Filed 04/20/17 Page 77 of 153 HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

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1 general?	1 scope, form. 2 THE WITNESS: Feels self-referential, but			
2 MS. ANDERSON: Objection; form.	,,,			
3 THE WITNESS: I don't know if I would	3 Android is Apache. So by definition, yes, there was			
4 necessarily agree with that characterization because	4 an effort to make didn't it didn't become			
5 it's really up to the application developer to	5 Apache by accident, I don't think.			
6 decide whether they want to use Google Play	6 BY MR. RAMSEY:			
7 Services. No one is forcing Google Play Services or	7 Q So are you			
8 anyone.	8 Do you believe that everything that is			
9 So to the extent that we are able to	9 all the code that is contained within the Android			
10 provide functionality that developers want, I think	10 platform, Google has the right to release under the			
11 that's a win-win. We're helping developers be more	11 Apache license?			
12 efficient and create innovations of their own using	12 MS. ANDERSON: Beyond the scope, form.			
13 our functionality, and and it's good for us too	13 THE WITNESS: I believe that we have the			
_				
14 because it means we get more usage of our	14 appropriate mechanisms, processes and controls in			
15 functionality. But I see that almost sort of	15 place to make sure that the code base is reviewed			
16 orthogonal to Android. I mean, this is all sort of	16 appropriately and the right licenses are used. For			
17 the baseline is Android, and whether you use Google				
18 services on top is really up to you.	18 BY MR. RAMSEY:			
19 BY MR. RAMSEY:	19 Q And you're a very senior executive with			
20 Q So you keep saying that that Android	20 respect to Android; is that true?			
21 is is free and open. You did use those words or	21 A Certainly getting old, yes.			
22 something similar, don't you agree?	22 Q Okay.			
23 A I don't know if I've used exactly those	23 And so in your role as a senior executive			
24 words, but Android is certainly free and it is	24 relating to Android, if you found that Android			
	25 contained material that was not appropriate to be			
25 Certainly open source.				
25 certainly open source.  Page 302				
Page 302	Page 304			
Page 30.  1 Q Are you aware of any effort to make sure	Page 304  1 licensed under Apache, do you believe that Google			
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25 abstract in general terms.

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MS. ANDERSON: Objection; beyond the

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1 MS. ANDERSON: Whenever it's good for you, 1 to end users, as we discussed, has more 2 Counsel, I think we have about hour six. Is that 2 functionality, but also it's updatable, right, 3 right? I think the witness has been going for a 3 because it's just like an application that comes 4 couple of hours. 4 from Google Play. Whenever the Google Keyboard team MR. RAMSEY: You want to take a break? As 5 comes up with new innovations or bug fixes, they can 6 you requested earlier, let's keep it quick just so 6 make it available on Google Play, and devices will 7 that we get our time in. 7 update with a new keyboard, whereas the one that was 8 MS. ANDERSON: Are we at about six hours? 8 built in before that was part of open source really 9 THE VIDEOGRAPHER: Six hours and three 9 depends on the manufacturer to update, and -- and as 10 minutes on the record. 10 we discussed, that -- that is something that happens 11 MS. ANDERSON: Thank you. 11 very slowly. 12 THE VIDEOGRAPHER: We are off the record 12 BY MR. RAMSEY: 13 at 5:04 p.m. Q So there have been reports that Google is 14 (Recess taken.) 14 moving functionality out of other parts of Android 15 THE VIDEOGRAPHER: We are back on the 15 into Google Play Services; is that true? 16 record at 5:10 p.m. A I think you asked me this question 16 17 BY MR. RAMSEY: 17 before. I'm only clarifying to make sure I'm Q We spoke a while ago about a Keyboard 18 understanding your question correctly. Is this the 19 implementation that was in the Android Open Source 19 same question you asked me before? 20 Project; that there was subsequently a new version 20 O Yeah. I think so. 21 of the Keyboard application created in Google Play 21 A Okay. So the answer is still the same. 22 Services, right? 22 I don't generally agree with the assertion that 23 Do you remember that? 23 we're moving more things out of open source into 24 A I remember the conversation, yes. 24 Google Play Services. As I mentioned earlier, we 25 Q Okay. 25 continue to add new functionalities and new APIs to Page 306 Page 308 1 So with respect to the new version of the 1 both, to the open source Android but also to Google 2 Keyboard functionality that's enabled through Google 2 Play Services as well. And whenever we make API decisions in 3 Play Services, will it run -- is it backward 3 4 compatible? Will it run on every prior version of 4 terms of where the API should go, we do it based 5 Android or not? 5 on sound computer science sort of methodologies to A No, sorry, just one clarification. One 6 decide, you know, what layer of the technology 7 clarification. The Keyboard, the Google Keyboard, 7 stack do these APIs belong in and put it in the 8 is not really tied to Google Play Services. It's 8 right place. 9 just a keyboard that Google provides through Google Q So list for me the -- the key APIs 10 embodied within Google Play Services and not 10 Play, Google Play being -- in this context, when I 11 say "Google Play," I mean the app store. So people 11 elsewhere. A I don't know if these are key APIs, but 12 can go to the Google Play app store and download 12 13 the Google Keyboard. Doesn't mean that it's built 13 I'll give you examples of APIs. The two examples 14 into Google Play Services, which is a separate 14 that I've given so far include Maps; MapView, I 15 think, is technically what it's called, in Google 15 thing from the app store. 16 Play Services. It's an API that enables 16 Q All right. 17 17 application developers to draw maps within their So -- well, same question. Is it true 18 own apps without taking the user outside of their 18 that there used to be an open source version of the 19 app. 19 Google Keyboard that was maintained and that was now 20 moved to a proprietary application? 20 Another example that I gave earlier is 21 YouTube View; I think that's what it's called, 21 MS. ANDERSON: Objection; form. THE WITNESS: Right. The -- I don't know 22 similar to the MapView example. YouTube View 23 enables applications to render YouTube videos 23 if the open source implementation is no longer 24 maintained. What I do know is that there is now a 24 within their app without the user having to leave 25 their app and go into the YouTube app. 25 Google Keyboard. The benefit of the Google Keyboard Page 307 Page 309

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- 1 Q Any other functionalities, other than
- 2 MapView and YouTube View within Google Play
- 3 Services?
- 4 A Well, those are two examples of -- of
- 5 APIs. An example of functionality, since that's --
- 6 that's what you just asked about, examples of
- 7 functionality, one example is security services. I
- 8 believe we call it SafetyNet -- I believe that's
- 9 the public name for it -- which is a way for code
- 10 that's running in Google Play Services to, with the
- 11 user's consent, scan their device every so often to
- 12 make sure there's no malware or viruses on the
- 13 device.
- 14 Q Was the MapView API ever a part of the
- 15 Android platform elsewhere?
- 16 A I don't believe so, no.
- 17 Q Was the YouTube View API ever a part of
- 18 the Android platform, outside of Google Play
- 19 Services?
- 20 A I don't believe so, no.
- 21 Q How about the security functionality
- 22 within Google Play Services; was that ever part of
- 23 the Android platform, outside of Google Play
- 24 Services?
- 25 A Similar to -- I don't believe so, no.

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- 1 and -- and sort of have very thought-through, cogent
- 2 sort of reasons for doing so if we need to do that.
- 3 And, again, it goes back to sort of the computer
- 4 science principles around having the appropriate
- 5 layering and putting generic operating system
- 6 functionality into AOSP, the Android Open Source
- 7 Project, and putting Google's specific functionality
- 8 into Google Play Services much like Facebook builds
- 9 their app and has their functionality in their app,
- 10 and it's not in Android open source.
- 11 BY MR. RAMSEY:
- 12 Q What do you mean by "Google specific
- 13 functionality in Google Play Services"?
- 14 A What I mean by "Google specific
- 15 functionality," it's a good -- good point. What I
- 16 mean by that is functionality that is powered by
- 17 Google servers. So, for instance, MapView, you
- 18 know, the map information comes from a server
- 19 that's hosted by Google as opposed to something
- 20 that belongs in the operating system like how to
- 21 draw a button, you know; that has nothing to do
- 22 with Google or Google servers, so that's why that's
- 23 in the base operating system.
- 24 Q So how do you make decisions about what
- 25 stays within the Android operating system in -- in

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- 1 It's a similar concept to MapView and YouTube View
- 2 where these functionalities depend on servers
- 3 powered by Google. The security system also
- 4 depends on -- heavily depends on servers and
- 5 infrastructure powered by Google, so that's why
- 6 it's in Google Play Services and not the Android
- 7 open source platform.
- 8 Q Have you been involved in any
- 9 conversations internally at Google about moving
- 10 functionality from other parts of Android into
- 11 Google Play Services?
- MS. ANDERSON: Objection; form.
- 13 THE WITNESS: Have I been involved in
- 14 conversations at Google where the topic of moving
- 15 functionality from one place to another has been
- 16 discussed?
- 17 BY MR. RAMSEY:
- 18 Q In particular, from Android, the Android
- 19 stack -- other places in the Android stack to Google
- 20 Play Services.
- 21 MS. ANDERSON: Beyond the scope.
- THE WITNESS: I think I have been. It's
- 23 been so long that I don't remember the details of
- 24 it. But I know it's been a topic -- it's something
- 25 that we consider very carefully and think through
  Page 311

- 1 layers of the stack, other than Google Play Services2 as opposed to what functionality gets put within
- 3 Google Play Services?
- 4 MS. ANDERSON: Objection; form, beyond the
- 5 scope.
- 6 THE WITNESS: Just try to make sure I
- 7 understand. You're -- you're asking how do we -- if
- 8 it doesn't belong in Google Play Services, how do we
- 9 determine where to put it?
- 10 BY MR. RAMSEY:
- 11 Q I'm trying to determine how does Google
- 12 decide what portions of functionality remains in
- 13 stacks of the Android platform, other than Google
- 14 Play Services, and how does Google determine what
- 15 pieces of functionality should, in fact, go within
- 16 Google Play Services?
- 17 MS. ANDERSON: Same objections.
- 18 THE WITNESS: Well, there aren't that many
- 19 options. I'm thinking through what are the options
- 20 that -- that we have when we decide where a
- 21 functionality goes. So let me try to enumerate the
- 22 options.
- One option is it's an operating system
- 24 thing and it goes in Android. Another option is
- 25 it's an API or sort of a functionality that is -- is

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- HIGHLY CONFIDENTIAL ATTORNEYS' EYES ONLY 1 sort of a service for the device similar to the Was the e-mail application that the OEMs 2 security example I gave that is somehow related to 2 created integrated within the Android operating 3 Google servers. So that would be Google Play 3 system? 4 Services. 4 A No. These are applications, so they're The third option is it's just an 5 not integrated in the OS. They're applications 6 application. You know, that's what we've done with 6 just like the Facebook application that is not 7 YouTube or Maps or Google Translate. These are 7 integrated OS. 8 applications that people can download and load onto Q All right. 9 their devices or Gmail. Those are on the device --9 I'm talking about functionality that is 10 I think those are basically it. Those are the three 10 part of the Android operating system stack. 11 possibilities of where we could decide to put 11 Have OEMs ever expressed opinions about 12 functionality. 12 what functionality should be within that stack as 13 Now, there's obviously another 13 opposed to other places, such as Google Play 14 consideration, which is, well, is this 14 Services? 15 functionality, for instance, better served on the 15 MS. ANDERSON: Beyond the scope. 16 Web? In which case we would put it on a server 16 THE WITNESS: Not that I'm aware of. 17 somewhere and make it accessible through a Web 17 BY MR. RAMSEY: 18 browser. Q Are you aware of any conversations at 19 It could also be a Web-based API that we 19 Google about removing functionality from the Android 20 make available. So there's a number of service-side 20 stack and putting it elsewhere, in general? 21 options as well, but I think that's an enumeration 21 MS. ANDERSON: Same objections. 22 of options that we have to work with. 22 THE WITNESS: I'm trying -- again, I'm 23 And so to answer your question on a 23 trying to differentiate this question from a 24 case-by-case basis, we look at the technology or the 24 previous one that you've asked me. Are you asking 25 functionality or the API in question and make a 25 me the same question? I'm happy to answer it again. Page 314 Page 316 1 BY MR. RAMSEY: 1 determination where is the best place to put it. 2 2 BY MR. RAMSEY: Q No. I think it's a different question. Q Have any of the OEMs that you deal with 3 So I just want to know, are you aware, in 4 ever expressed views about functionality remaining 4 general, of any conversations at Google about 5 within the Android stack as opposed to something 5 removing functionality from the Android stack and 6 like Google Play Services? 6 putting it elsewhere? 7 MS. ANDERSON: Objection; beyond the A I think -- I think it's the same question 8 scope. 8 you asked me a few questions ago where my answer 9 was, I'm sure conversations like that have THE WITNESS: Remaining in the Android O\$ 10 as opposed to something like Google Play Services, 10 happened. I don't remember a specific one at the 11 moment, but every time those conversations The interesting observation, at least 12 happened, it's -- you know, we take into 13 interesting to me observation, is many OEMs end up 13 consideration what is the technically appropriate 14 thing to do to make sure that we're following sort 15 of sound computer science principles. Many OEMs -- even though we had a open Q You mentioned that there are a number of 16 17 different APIs that Google continued to add to
- 11 not to my knowledge. 12 14 implementing their own stuff anyway. So, for 15 instance, I'll give two opposing examples. 16 17 sourced e-mail application, many OEMs ended up 18 implementing their own e-mail app anyway because 19 they wanted to differentiate, and they felt like 20 e-mail was an important way to differentiate their

21 devices, so they did their own implementation. So

22 they didn't really care about what we were

Q Let me just stop you there.

23 providing.

24 BY MR. RAMSEY:

- 20
- A Is this when I was talking about the

Do you recall that?

- 21 3,000 new APIs in L?
- 22 O Correct.

18 Android.

19

25

- 23 A I do remember that.
- 24 All right.
  - In general, are you aware that Google

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- HIGHLY CONFIDENTIAL ATTORNEYS' EYES ONLY 1 for customers, it would be bad for the ecosystem. 1 continues to add material to Android as opposed to 2 BY MR. RAMSEY: 2 remove it from Android? Q Why would it be bad for app developers to 3 MS. ANDERSON: Beyond the scope. 4 have to rewrite their applications for every new THE WITNESS: When you say "material" now, 5 release of Android? 5 I'm just trying to disambiguate. You're not 6 speaking about material design. You're talking 6 MS. ANDERSON: Same objections. 7 THE WITNESS: Sorry, you didn't even let 7 about material as in things? 8 me finish my question [sic], so now I've lost my 8 BY MR. RAMSEY: 9 train of thought. Which question did you want me to Q Let me reask it. 10 10 answer? In general, are you aware that Google 11 continues to add code and functionality to the 11 BY MR. RAMSEY: Q Well, I just want to know why you just 12 Android stack as opposed to remove code and material 12 13 mentioned that you thought it would be a bad thing 13 from the Android stack? 14 if application developers had to change their 14 MS. ANDERSON: Objection; form, beyond the 15 application of every release of Android. Why would 15 scope. 16 that be bad? 16 THE WITNESS: There are -- there are cases 17 MS. ANDERSON: Beyond the scope. 17 where we do -- what's the word I'm looking for? 18 There's a specific -- "deprecate," where we do 18 THE WITNESS: Well, as a general theme, 19 you know, it's kind of like doing the same work over 19 deprecate certain APIs; that is a form of removal or 20 again. Why would anyone want to do that, right? 20 at least making it so that new developers can't use 21 these APIs anymore. Sometimes that does happen. 21 Like, if -- if -- there's no point shoveling 22 snow if it's still snowing out there; you're going 22 But sort of net-net, you know. If you were to 23 to have to shovel it again. That -- that -- maybe 23 compare how many new APIs were added versus how many 24 that's not the best analogy, but as an app 24 were -- were deprecated -- I'm making this number 25 developer, you have limited resources, you have 25 up, but approximately, it's probably a thousand to Page 318 Page 320 1 limited time. You're competing with a lot of app 1 one or something like that. You know, many more 2 developers, and you want to make sure that the 2 APIs are added than they are deprecated. 3 engineering effort you're putting in is -- is used 3 And when we do deprecate APIs, it's 4 usually for a very technical reason; maybe the API 4 wisely. 5 just wasn't working the way we intended it to. 5 And if Android requires you to rewrite 6 Maybe it was causing bad battery life on devices 6 your application from scratch every time, that would 7 because the API was structured in a way that caused 7 be very inefficient for an app developer, and they 8 wouldn't be making any progress. New innovations 8 developers to do certain things that would chew 9 wouldn't be happening because they'd be focusing on 9 through your battery, and so we said, "This is not 10 rewriting their app over and over again. 10 good for the customer," so, you know, we would work 11 with our developer relations team to reach out to 11 So from that perspective, ensuring some 12 semblance of -- of cohesion, consistency across 12 developers and explain the situation and all of 13 that. So it's always a carefully considered option. 13 versions, and consistency is very important, 14 stability is very important, API stability is very 14 BY MR. RAMSEY: Q So is it fair to say that the presence or 15 important. 16 absence of APIs in Android changes over time and 16 So I don't have an exact statistic for 17 you, but I would say the vast majority of APIs in 17 across versions? 18 18 Android remain unchanged over various versions of MS. ANDERSON: Objection; form, beyond the 19 scope. 19 Android. But over time we certainly add APIs, which
- 20 THE WITNESS: Yeah. The API set -- I just
- 21 want to make sure I'm painting an accurate picture.
- 22 Fundamentally -- and it's not like every release of
- 23 Android requires an app developer to completely
- 23 Android requires an app developer to completely
- 24 rewrite their application. That would certainly be
- 25 very inefficient for app developers, it would be bad

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25 generally how it works.

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20 doesn't obviously require you to rewrite your app 21 because the fact that there are new APIs that you're

22 not using doesn't cause your old APIs to not work 23 anymore; just means you're not taking advantage of

24 the latest and greatest functionalities. But that's

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1 Now, deprecating APIs certainly gets a 1 but doesn't mean that it hasn't happened. Doesn't 2 little bit tricky, and that's why it's a very 2 mean anything in particular, because I'm -- I'm not 3 carefully considered, last resort-type of option. 3 coding, myself, anymore. 4 BY MR. RAMSEY: 4 BY MR. RAMSEY: Q When Google makes changes to the Android 5 Q Who would best know the answer to that 6 APIs, does it coordinate with Oracle, to your 6 question of whether APIs were moved from the rest of 7 understanding, or not? 7 the Android stack into Google Play Services? MS. ANDERSON: Objection; form, beyond the 8 MS. ANDERSON: Objection; form, beyond the 8 9 scope. 9 scope. 10 THE WITNESS: I don't know. 10 THE WITNESS: I think the specifics would 11 BY MR. RAMSEY: 11 depend on who the owner of the API was, if such a Q But you have no awareness affirmatively 12 thing happened. I don't know if it's happened, so 13 that Google is reaching out to Oracle to make sure 13 it's hard for me to tell you who to point you to. 14 that Oracle is coordinated with Google about changes I will tell you, though, that, in general, 15 to Android APIs? 15 as I've mentioned before, this is not something we 16 are striving to do. 16 MS. ANDERSON: Objection; form, beyond the 17 scope. 17 Our goal is to have a very stable API set, 18 THE WITNESS: I am not aware of any effort 18 and the only time when APIs are moved is when we 19 of communications between Oracle and Google, aside 19 believe it makes sense from separating out sort of 20 from lawsuits. 20 Google-specific functionality from sort the generic 21 BY MR. RAMSEY: 21 operating system that is Android. 22 Q Okay. 22 BY MR. RAMSEY: 23 Are you aware of any APIs that were Q I think you testified earlier that Google 24 formerly part of the Android stack that have been 24 Play Services is part of Google's anti-fragmentation 25 moved to Google Play Services from the rest of the 25 strategy? Page 324 Page 322 1 Android stack? 1 MS. ANDERSON: Objection; form. 2 THE WITNESS: I'm pretty sure I did not 2 A Sorry, ask me that again. Q Are you aware of any APIs that were 3 use that phrasing. What I mentioned was there is, 4 formerly part of the Android stack that have been 4 in terms of version fragmentation, which -- which 5 moved to Google Play Services from the rest of the 5 refers to there being multiple different versions of 6 Android stack? 6 Android out there and functionalities not being 7 7 updated in the field, in terms of that definition of MS. ANDERSON: Objection; form. THE WITNESS: I just want to clarify. I 8 fragmentation, Google Play Services can help, you 9 want to make sure I'm answering the right question 9 know, in a sliver, a tiny, little sliver of that 10 for you. I think you've answered -- asked this 10 problem by at least making it possible for us to 11 question of me before. It's the same question, 11 update functionalities that we're providing as part 12 right? 12 of Google Play Services. Vast subset of Android 13 BY MR. RAMSEY: 13 overall, but it's a -- it's a small sliver, as I Q I'm now specifically asking about APIs, 14 mentioned. 14 15 not functionality, in general. 15 BY MR. RAMSEY: Q Are you aware of application and 16 A Okay. 16 17 Q So let me reask my question, so it's --17 functionality such as Gmail being bundled with 18 A Yeah, I just want to make sure I'm 18 Android at some point in the past? 19 answering your questions appropriately. 19 A Am I familiar with Gmail being bundled 20 Q Are you aware of any APIs that were 20 with Android? I've -- I've --21 formerly part of the Android stack that have been 21 MS. ANDERSON: I just want to caution, 22 just to interject an objection to beyond the scope 22 moved to Google Play Services out of the rest of the 23 Android stack? 23 and form.

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24

25

You may answer now.

THE WITNESS: I've heard that phrase. I'm

24

25

MS. ANDERSON: Objection; form.

THE WITNESS: I'm personally not familiar,

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1 not exactly sure what it refers to, so maybe you can 1 I think was your question, is not a part of the 2 be a little more specific. 2 Android platform or operating system. 3 BY MR. RAMSEY: 3 BY MR. RAMSEY: Q Well, what's your understanding of Q Is Google Talk or Hangouts, have those 5 bundling functionality such as Gmail with Android? 5 ever been part of the Android platform? MS. ANDERSON: Beyond the scope. MS. ANDERSON: Objection; form, beyond the 7 scope. 7 Objection; form. 8 THE WITNESS: What is my understanding? I 8 THE WITNESS: No. Google Talk or Hangouts 9 don't have an understanding. I'm just saying I've 9 has not been a part of the Android platform. It's 10 heard people say it, and I don't actually know what 10 an application -- applications for Android that run 11 they mean, which is why I'm asking you what -- what 11 on Android, but they're not included in the Android 12 you mean by it. 12 operating system or platform. 13 BY MR. RAMSEY: 13 BY MR. RAMSEY: O Okay. Q Has Google Chrome ever been part of the 15 So was Gmail ever part of the Android 15 Android platform? 16 stack? 16 MS. ANDERSON: Same objections. THE WITNESS: The Chrome browser has not 17 MS. ANDERSON: Objection; form, beyond the 17 18 scope. 18 been a part of the Android platform. It's a 19 THE WITNESS: Was Gmail, the 19 separate application, an application that runs on 20 top of Android, but it's not built into the OS. 20 application -- you're talking about the Gmail 21 service where you get your e-mail? 21 BY MR. RAMSEY: 22 BY MR. RAMSEY: 22 Q Okay. 23 Q Uh-huh. 23 Has the YouTube functionality ever been 24 part of the Android platform? 24 A Was that a part of the Android operating 25 system? 25 MS. ANDERSON: Same objections. Page 326 Page 328 1 Q Yes. Just in general, is that -- was it 1 THE WITNESS: The YouTube application is a 2 ever part of the Android operating system? 2 separate application that runs on Android, but it 3 MS. ANDERSON: Objection; form, beyond the 3 has not been built into the Android operating 4 scope. 4 system. THE WITNESS: No. The Gmail application 5 BY MR. RAMSEY: 5 6 has always been an application on top of Android. Q So over time, has there -- have -- has --7 Just because something is written for Android 7 has Google moved functionality into Google Play 8 doesn't mean that it's a part of Android. 8 Services in order to -- in order to exert more 9 BY MR. RAMSEY: 9 control over the Android platform itself? 10 Q Was -- was the Gmail functionality ever MS. ANDERSON: Objection; form. 11 part of the Android platform in any way? 11 THE WITNESS: Again, I need to clarify 12 MS. ANDERSON: Same objections. 12 with you if I'm answering a new question or the same 13 THE WITNESS: Not that I'm aware of. I 13 question as before. It sounds a lot like a question 14 believe the Gmail application has always been a 14 you've asked me about three times before. I'm happy 15 stand-alone application that you can download and 15 to answer it again, but I just want to make sure 16 update independent of the operating system. 16 that I'm understanding your question correctly. If 17 BY MR. RAMSEY: 17 you could repeat your question. Q Has Google Search functionality ever been 18 BY MR. RAMSEY: 19 part of the Android platform? 19 Q So over time, has Google moved 20 MS. ANDERSON: Same objections. 20 functionality into Google Play Services in order to THE WITNESS: From the Android operating 21 exert more control over the Android platform? 22 system or platform perspective, it doesn't; as I've 22 MS. ANDERSON: Objection; form, beyond the 23 mentioned before, the operating system is a generic 23 scope. 24 one. It doesn't know anything about any particular 24 THE WITNESS: I wouldn't characterize it 25 company, so, no, it is not a part of Google Search, 25 that way. I think when we make decisions on what

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- HIGHLY CONFIDENTIAL ATTORNEYS' EYES ONLY 1 functionality goes where, we take a very disciplined 1 scope. 2 view on sort of computer science principles, and --2 THE WITNESS: You know, it really depends. 3 You know, certainly if -- if a customer is -- and by 3 and really our -- our -- the basis of our thinking 4 "customer" now, I'm referring to an end user. If 4 is that Android is an operating system that's 5 generic. It doesn't know anything about a 5 they are using Gmail, we certainly prefer that they 6 use the Gmail application because that's what that 6 particular company, Google included. And so it's a 7 application was built for. 7 base operating system that's generic. When there But, for instance, there are areas in 8 are functionalities or APIs that are specific to 9 which our e-mail application was lacking 9 Google or provided specifically by Google Services, 10 historically in terms of support for certain 10 or servers, then we typically make the determination 11 to move that or create that functionality in Google 11 enterprise use cases, and in those cases, many of 12 the OEM-based mail applications were -- were much 12 Play Services. 13 BY MR. RAMSEY: 13 better, and -- and we've received that feedback not 14 only from the OEMs but also operators, so it really O Have any phone manufacturers ever 15 is case-by-case and -- and who the target audience 15 expressed resistance to Google Play Services? MS. ANDERSON: Objection; form. 16 is and what the functionality it is that we're 17 talking about. 17 THE WITNESS: Not that I'm familiar with, 18 no 18 BY MR. RAMSEY: 19 Q Do you have an understanding of how Google 19 BY MR. RAMSEY: 20 Play Services relates to the core libraries in the Q Have you ever heard phone manufacturers 21 ever say anything negative about Google Play 21 Android runtime? 22 MS. ANDERSON: Objection; form. 22 Services? 23 23 THE WITNESS: When you say "core libraries MS. ANDERSON: Objection; form, beyond the 24 in the Android runtime," what are you referring to? 24 scope. 25 25 THE WITNESS: Not that I'm familiar with. Page 330 Page 332 1 If anything, there are many phone manufacturers who 1 BY MR. RAMSEY: 2 write applications of their own that take advantage 2 Q So do you recognize the term "core 3 of Google Play Services. So I haven't heard any 3 libraries"? 4 objections, and if anything, I've seen adoption of A I -- we had a conversation -- your 5 Google Play Services from their application teams. 5 colleague and I had a conversation about this 6 BY MR. RAMSEY: 6 before. The term "core libraries" is used pretty O How does -- when manufacturers create 7 liberally in various slide decks and documents, and 8 their own applications, such as mail --8 it really depends -- the meaning of it or what it 9 refers to really depends on who you're talking to, You mentioned mail, correct? 10 so in order for me to answer your question very 10 A Correct. 11 Q Is there any way that Google monetizes 11 accurately, I would love to understand what -- what 12 your definition is. 12 that act? 13 MS. ANDERSON: Objection; form, beyond the 13 Q All right. So I'm talking about the libraries within 14 scope. 14 15 THE WITNESS: Not that I'm aware of, no. 15 the Android platform that contain packages such as 16 We don't charge OEMs or anyone to create their 16 java.util, U-T-I-L, or java.io or java.nio.
- 17 applications for Android. If anything, we want them 18 to be able to make money off of creating 19 applications. 20 BY MR. RAMSEY: Q Are there commercial reasons why Google

22 would prefer to -- that OEMs use Google's own e-mail

MS. ANDERSON: Objection; form, beyond the

23 application as opposed to -- just for example, as

24 opposed to writing their own?

25

MS. ANDERSON: Objection; form. 17 18 BY MR. RAMSEY: 19 Q Do you understand what I'm describing when 20 I give you those examples of the core libraries? 21 MS. ANDERSON: Objection; form, beyond the 22 scope. 23 THE WITNESS: I think I do. I'm glad I 24 clarified, though, because I was thinking about 25 something completely different. Page 333

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1 that came to my mind is Jeff Hamilton.
 1 BY MR. RAMSEY:
 2
      Q All right.
                                                       2 BY MR. RAMSEY:
 3
         So do you understand how Google Play
                                                       3
                                                            O Okav.
 4 Services relates to core libraries such as those I
                                                       4
                                                               Do you have any technical understanding
 5 just mentioned in the Android runtime?
                                                       5 about the way Google Play Services, for example,
                                                       6 relates to the core libraries in Android?
      A Sorry.
 7
         MS. ANDERSON: Sorry. Objection; form.
                                                       7
                                                               MS. ANDERSON: Objection; form.
 8
         THE WITNESS: If you could answer -- ask
                                                       8
                                                               THE WITNESS: Again, when you say "core
 9 that question again.
                                                       9 libraries," you're -- you're, for example, talking
10 BY MR. RAMSEY:
                                                      10 about java.util. I don't know how or if they relate
      Q So do you understand how Google Play
                                                      11 to each other.
11
12 Services relates to the core libraries within the
                                                      12 BY MR. RAMSEY:
13 Android runtime?
                                                      13
                                                            Q All right.
14
         MS. ANDERSON: Objection; form.
                                                      14
                                                               So you didn't do anything to prepare for
         THE WITNESS: How Google Play services
15
                                                      15 the conversation today to prepare --
16 relates to java.util. That's what you're asking?
                                                      16
                                                               You didn't do anything to prepare yourself
17 BY MR. RAMSEY:
                                                      17 about how Google Play Services relates to the Java
18
      Q For example, sure.
                                                      18 packages at issue in this case?
19
      A I don't even know how to parse that
                                                      19
                                                               MS. ANDERSON: Objection; form.
                                                      20
                                                               THE WITNESS: Well, what I -- what I did
20 question. I don't know.
21
      Q So has Google used any of the core
                                                      21 to prepare for today was just, you know, my nine and
22 libraries in the process of creating Google Play
                                                      22 a half years working on Android and a number of
                                                      23 years working on Google Play Services. That's --
23 Services?
24
         MS. ANDERSON: Objection; form.
                                                      24 that's the knowledge I'm bringing to the table
         THE WITNESS: If you're asking, for
25
                                                      25 today.
                                             Page 334
                                                                                                    Page 336
 1 example, have -- has the Google Play Services team
                                                       1 BY MR. RAMSEY:
 2 used java.util in the creation of Google Play
                                                       2
                                                            Q Okay.
 3 Services, I don't know.
                                                       3
                                                               But you didn't do anything beyond that to
 4 BY MR. RAMSEY:
                                                       4 prepare yourself about the technical aspects of how
 5
      Q Okay.
                                                       5 Google Play Services relates to the packages, the
 6
         Who would -- who's responsible for the
                                                       6 Java packages?
                                                       7
 7 actual creation of Google Play Services technically?
                                                               MS. ANDERSON: Objection; form.
         MS. ANDERSON: Objection; form.
                                                               THE WITNESS: Beyond the nine and a half
 8
 9
         THE WITNESS: Well, it's a pretty big
                                                       9 years of work on this, no, I haven't done anything
10 team, and it's spread out across many groups within
                                                      10 else.
11 Google, so it's hard for me to pinpoint exactly who
                                                      11 BY MR. RAMSEY:
12 to ask. But there are a number of people that I
                                                            Q Sitting here today, you're not able to
                                                      12
13 would start with.
                                                      13 tell me technically how Google Play Services relates
14 BY MR. RAMSEY:
                                                      14 to the Java packages at issue in this case?
                                                               MS. ANDERSON: Objection; form.
      Q So if I wanted to ask somebody technical
                                                      15
16 questions about how Google Play Services relates to
                                                               THE WITNESS: Correct. I don't -- didn't
                                                      16
17 the rest of Android, who is the person I would be
                                                      17 write all the code in Android myself, so I don't
18 asking questions of?
                                                      18 have that direct knowledge --
         MS. ANDERSON: Objection; form.
19
                                                      19 BY MR. RAMSEY:
20
         THE WITNESS: Probably an engineer or an
                                                      20
                                                            Q Do you know what language Google Play
21 engineering lead on the Google Play Services team.
                                                      21 Services is developed in?
22 BY MR. RAMSEY:
                                                      22
                                                               MS. ANDERSON: Objection; form.
23
      Q And their name is?
                                                      23
                                                               THE WITNESS: Not -- not with certainty,
24
         MS. ANDERSON: Objection; form.
                                                      24 no.
25
         THE WITNESS: Their name -- the person
                                                      25
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                                                                                                    Page 337
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#### 1 BY MR. RAMSEY: 1 are here and I'm being deposed, no, I don't really 2 Q Okay. 2 have knowledge about that. In your nine and a half years of working 3 3 BY MR. RAMSEY: 4 with Android, have you worked with the Java Q Are you aware of any strategies, not 5 language? 5 including conversations with lawyers, that relate to A Since I've been at Google for nine and a 6 reactions to the current lawsuit? 7 half years now, I've not contributed any source 7 MS. ANDERSON: Objection; form, beyond the 8 code, so I haven't written in any language. 8 scope. Q Isn't it true that when Android was first 9 THE WITNESS: Have I had -- sorry, just to 10 being developed, you were part of the discussions 10 clarify your question. You're asking me if there 11 about whether to use Java ME, for example? 11 have been conversations not with lawyers about this 12 MS. ANDERSON: Objection; beyond the 12 case? 13 scope. 13 BY MR. RAMSEY: 14 THE WITNESS: No. Actually, when I 14 O Correct. 15 arrived at Google in April of 2006, a lot of those 15 MS. ANDERSON: Same objections. Same --16 decisions had already been made. 16 beyond the scope. 17 BY MR. RAMSEY: 17 THE WITNESS: I have not -- I have not had 18 Q Did you have any --18 conversations with anyone about this case without 19 Did you have any role at all over the 19 lawyers being present. 20 history of Android in determining what, if any, part 20 BY MR. RAMSEY: 21 of Java to use in Android? 21 O Okay. 22 MS. ANDERSON: Beyond the scope. 22 Did you ever interact with a company 23 THE WITNESS: When you say "Java" now, 23 called Noser? 24 you're referring to what? 24 MS. ANDERSON: Beyond the scope. 25 25 THE WITNESS: Yes, I am familiar with Page 338 Page 340 1 BY MR. RAMSEY: 1 Noser. Q The Java programming platform. 2 BY MR. RAMSEY: 3 A The Java platform. Q Isn't it true that you advised not to work 4 MS. ANDERSON: Beyond the scope. 4 with -- Mr. Rubin not to work with Noser? 5 Objection; form. 5 MS. ANDERSON: Beyond the scope. THE WITNESS: No, I don't believe so. 6 Objection; form. THE WITNESS: You're saying I advised Andy 7 It's not something that I've spent much time 8 thinking about. The Java platform is not something 8 to not work with Noser? 9 BY MR. RAMSEY: 9 I've spent much time thinking about. 10 Q Correct. 10 BY MR. RAMSEY: Q But it's your understanding that Android, 11 MS. ANDERSON: Same objections. 12 THE WITNESS: I don't remember. You know, 12 at least in part, uses portions of the Java 13 platform, correct? 13 if it happened, it was in the very early days of 14 MS. ANDERSON: Objection; form, beyond the 14 Android. Noser, I vaguely remember from probably 15 2006 or 2007, around then, so nine -- eight, nine 15 scope. 16 years ago. I don't remember the details of what I 16 THE WITNESS: I don't have an 17 understanding of that, one way or another. 17 may or may not have said to Andy. 18 BY MR. RAMSEY: 18 BY MR. RAMSEY: 19 Q Were you involved in the creation of the Q It's not your understanding that various 20 Java packages, in other words, packages from the 20 Android Compatibility Test Suite? 21 MS. ANDERSON: Beyond the scope. 21 Java platform, have been taken by Google and used in 22 THE WITNESS: Well, not directly. As I 22 Android? 23 pointed out earlier, I haven't written a line of 23 MS. ANDERSON: Objection; form, beyond the 24 code since I've been at Google, so I haven't 24 scope. 25 directly helped build anything. 25 THE WITNESS: Aside from the fact that we Page 339 Page 341

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#### 1 BY MR. RAMSEY: MS. ANDERSON: Objection; form, beyond the 2 Q Were you involved in the strategy 2 scope. 3 regarding the Android Compatibility Test Suite? 3 THE WITNESS: I don't know. It's not MS. ANDERSON: Beyond the scope. 4 something I've thought about it. I don't THE WITNESS: I don't know if I would say 5 necessarily know if -- if anyone is asking for that, 6 I was involved in the strategy either. I think the 6 really. So I think it's, you know, really up to 7 strategy was -- was already determined by that 7 each product team and each project and their unique 8 needs to determine what is the best path forward for 8 point. 9 them. 9 BY MR. RAMSEY: 10 So for Android, we decided that open 10 Q Determined by who? 11 MS. ANDERSON: Beyond the scope. 11 sourcing was the appropriate thing to do. There are 12 THE WITNESS: Andy Rubin. 12 other projects at Google where they made the same 13 determination to open source their projects, and 13 BY MR. RAMSEY: O So what's the reason that Google does not 14 there are other projects within Google where they 15 decided open sourcing wasn't the right thing for 15 release Google Play Services under the GPL license? MS. ANDERSON: Objection; form, beyond the 16 them to do or maybe they didn't even consider it. 16 17 scope. 17 It's really up to each product team to decide. 18 THE WITNESS: I don't know if that's ever 18 BY MR. RAMSEY: 19 been considered, to be honest. It's -- the reason 19 Q So is -- is there phone functionality that 20 is much like the rest of Google's applications and 20 is part of the Android stack? 21 services; these are proprietary to Google, so 21 Is there phone functionality? 22 they're not open sourced, which is -- which is a 22 Uh-huh. Q 23 contrast to Android, obviously. Android is open 23 MS. ANDERSON: Objection; form, beyond the 24 sourced and available publicly. But Google-specific 24 scope. 25 services and applications are typically proprietary. 25 THE WITNESS: There -- let's see. It Page 342 Page 344 1 BY MR. RAMSEY: 1 depends on what you -- what level of technical Q So -- so there's some code that Google 2 detail you mean by "phone." So, for instance, in 3 develops that it would not want to release under a 3 every telephone and cell phones, there's a radio. 4 GPL license because it's more valuable as a business 4 And there are kernel drivers that know how to talk 5 decision to make it proprietary; is that true? 5 to the radio. There are radio interface layers; MS. ANDERSON: Beyond the scope. 6 typically we call them RILs, R-I-L, that know how to 7 THE WITNESS: Well, there are -- there are 7 talk to the drivers that talk to the radio. There 8 many things that Google does -- even if you ignore 8 are APIs that know how to talk to the RIL, that know 9 Android for a second, there are many things that 9 how to talk to the drivers, that know how to talk to 10 Google does that isn't open sourced. So it's not 10 the radio, and so on and so forth. So there's a 11 really about GPL, per se, as it's just more of a 11 whole stack diagram for this. 12 business decision, I think, for Google to decide 12 So when you ask, is there phone 13 whether the thing that we're working on, whatever 13 functionality in Android, it really -- I guess it 14 the project is, should be open sourced or not. 14 really depends on, you know, what layer you're 15 There are many cases, by the way, where we 15 talking about. The details will matter. 16 do open source what we do work on. So, for 16 BY MR. RAMSEY: 17 instance, Android is a pretty big example of a Q Did Google have a phone app that it 17 18 project that Google has worked on that is open 18 released in 2008 in the context of the Android Open 19 sourced. There are other examples of projects that 19 Source Project? 20 Google has embarked on that are also open sourced. 20 MS. ANDERSON: Beyond the scope. 21 But there are some apps and services -- some set of 21 Objection; form. 22 apps and services that are not open sourced either. THE WITNESS: When Android was released on 23 BY MR. RAMSEY: 23 the first device -- this is the T-Mobile G1 in Q Why doesn't -- why doesn't Google just 24 2008 -- certainly you could make phone calls with 25 open source all of the code that it creates? 25 it, and I believe the name of that application was Page 345 Page 343

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1 removed from that layer of the Android stack and 1 PHONE, yes. 2 BY MR. RAMSEY: 2 into Google Play Services? A Anything from the Android application Q And subsequently after 2008, isn't it true 4 framework that has been moved into Google Play 4 that Google published its PHONE app on the Play 5 Services? 5 Store? Q Correct. 6 MS. ANDERSON: Same objections. 6 7 7 A No, I can't -- I personally can't think THE WITNESS: I just read that actually 8 of anything like that. 8 recently in the press that the PHONE app -- there's 9 a PHONE app available on the Play Store for a Q Are you aware of a part of the Android 10 stack known as the native libraries? 10 certain set of devices, Nexus devices specifically, MS. ANDERSON: Beyond the scope. 11 I believe, on the Play Store. 11 12 THE WITNESS: Generally, yes. 12 BY MR. RAMSEY: Q So why is it over time that Google has 13 BY MR. RAMSEY: Q Are you aware of any portion of the 14 taken code such as Chrome Contacts, Keyboard from 14 15 Android stack, the native libraries portion of the 15 the Android Open Source Project and instead, created 16 proprietary apps to replace what was formerly open 16 Android stack, that has been moved to Google Play 17 sourced? 17 Services over time? 18 MS. ANDERSON: Objection; form, beyond the 18 A Not that I can personally think of, but 19 scope. 19 I'm not sure. 20 Q Who would know the answer to these 20 THE WITNESS: Yeah. I don't know if I 21 questions of whether there are parts of the Android 21 would necessarily agree with your assertion that 22 stack that have been moved from, for example, the 22 we've sort of taken all apps -- I don't know if you 23 said "all," but the insinuation was that we're 23 native libraries application framework to Google 24 taking all apps and -- and making them private. It 24 Play Services? 25 25 really is a case-by-case determination where we feel MS. ANDERSON: Objection; form. Page 346 Page 348 1 THE WITNESS: I think someone on the 1 that there are unique capabilities that we can bring 2 to the end user experience, and if those unique 2 Google Play Services team would know that, an 3 engineer or an engineering manager or leader. 3 capabilities depend on proprietary Google 4 technologies, then we'll make a determination and --4 BY MR. RAMSEY: 5 and possibly decide that it's time to provide that 5 Q Can you give me a name? 6 functionality in that way, which would mean that we 6 A Sure. 7 7 have to make that application proprietary. O And who would that be? 8 At the same time, we think it's very A Oh, Jeff Hamilton. 9 Did you talk with Mr. Hamilton in 9 important that Android open source has a good 10 preparation for today's deposition about Google Play 10 reference implementation for all of the basic phone 11 functionalities, so we try our best to maintain the 11 Services? 12 A No, I did not. 12 open source code as well so that Android always has 13 a good reference implementation for base Q Did you talk with actually anybody? Did 14 you go interview anybody at Google to educate 14 functionality. 15 yourself about any of the topics that have been 15 BY MR. RAMSEY: 16 discussed today? Q Are you aware of part of the Android stack 17 known as the application framework? 17 MS. ANDERSON: Objection; form. MS. ANDERSON: Objection; form, beyond the 18 THE WITNESS: No. I met with counsel to 18 19 understand --19 scope. 20 THE WITNESS: Yes, I generally think I 20 MS. ANDERSON: Just caution the witness. 21 It's okay to say "I met with counsel." 21 know what you're referring to when you say 22 "application framework." 22 THE WITNESS: Sorry. 23 MS. ANDERSON: It's late, I know. 23 BY MR. RAMSEY: 24 THE WITNESS: I met with counsel. Aside Q Are you aware of any functionality within 25 from that, you know, I have personally been working 25 the Android application framework that has been Page 347 Page 349

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- 1 on Android for nine and a half years. That predates
- 2 the original launch of Android, so I have a lot of
- 3 sort of knowledge and history about Android --
- 4 BY MR. RAMSEY:
- 5 Q But you did not --
- 6 A Sorry, just to finish.
- 7 -- which I believe is why I was chosen
- 8 to come here just given the history that I've had
- 9 with this project.
- 10 Q But we've talked about a number of
- 11 technical issues today regarding, for example, the
- 12 application framework, the native libraries, the
- 13 core libraries that you've been unable to answer.
- Did you do anything to educate yourself as
- 15 to those technical topics?
- MS. ANDERSON: Objection; form and move to
- 17 strike the prefatory statement.
- 18 THE WITNESS: There was no way for me to
- 19 know beforehand what specific questions you'd be
- 20 asking me about. And given the broad nature of what
- 21 we're talking about here and just the vast amounts
- 22 of information there is about Android in my brain,
- 23 it just wasn't possible for me to go interview
- 24 everyone, everything about Android in preparation
- 25 for whatever questions you may ask me.

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- 1 topic multiple times. I do remember in the very
- 2 early days of Android, I think it was HTC because
- 3 they were the first Android manufacturer --
- 4 manufacturer who adopted Android, I do remember
- 5 vaguely them asking me about Java. I mean, this
- 6 was so early in the development of Android that no
- 7 one really knew anything about Android. We were
- 8 still figuring it out ourselves. So I have a vague
- o still figuring it out ourselves. So I have a vague
- $9\,$  recollection of talking to them about Java, but I
- 10 don't have specific memories about --
- 11 Q What do you remember about your
- 12 conversation with HTC about Java in the early days
- 13 of Android?
- 14 A I think they just wanted to be educated
- 15 on -- on what is Android and explaining to them
- 16 that we use the Java language but that we have our
- 17 own framework and our own platform. I think that
- 18 was basically it. It was probably a very quick
- 19 conversation. Certainly what I can point out is,
- 20 you know, in my nine and a half years at Google
- 21 working on Android, the topic of Java or the Java
- 22 platform is not something that really comes --
- 23 comes up at all.
- You know, we talk a lot about how to
- 25 satisfy our customers, how to build great devices,

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- 1 MS. ANDERSON: Can I get the time on the
- 2 record, Mr. Videographer?
- 3 THE VIDEOGRAPHER: Six hours and 46
- 4 minutes on the record, Counsel.
- 5 MS. ANDERSON: Okay.
- 6 BY MR. RAMSEY:
- 7 Q Did you talk with anyone, putting aside
- 8 lawyers, about any of the topics that you're
- 9 supposed to be testifying about today?
- 10 A Specifically for -- in preparation of
- 11 today, no. But I will say I've talked to many,
- 12 many people, thousands of people throughout my nine
- 13 and a half years of working on Android, which I
- 14 believe is what prepared me to, you know, be
- 15 someone that you can talk to today.
- 16 Q Have you ever had conversations about Java
- 17 in relation to Android at any point in your nine and
- 18 a half years of history with Android?
- 19 MS. ANDERSON: Beyond the scope.
- 20 THE WITNESS: Have I ever talked about
- 21 Java?
- 22 BY MR. RAMSEY:
- Q (Nods head.)
- 24 A That's very broad. Certainly the Java
- 25 language has come up. This lawsuit has been a

- 1 great operating systems, great functionalities.2 Those are the things that we talk about. We talk
- 3 about Lollipop, we talk about Marshmallow, the
- 4 next version of the operating system. We don't
- 5 really talk about Java.
- 6 Q But you're aware that -- that Java
- 7 developers would be attracted to developing for
- 8 Android, correct?
- 9 MS. ANDERSON: Beyond the scope.
- THE WITNESS: Our goal is to make all
- 11 developers attracted to Android. You know, if
- 12 you -- if you look at the development landscape out
- 13 there, there are many developers who've written
- 14 applications in various languages, C, C++, Objective 15 C. We want to make sure that we have a system and
- 15 C. We want to make sure that we have a system
- 16 an ecosystem and a business environment for all
- 17 developers to be successful in Android.
- 18 BY MR. RAMSEY:
- 19 Q But at the outset when Android was first
- 20 developed, there was a decision made to use portions
- 21 of the Java platform, in particular, right?
- MS. ANDERSON: Objection; beyond the 23 scope, form.
- 24 THE WITNESS: I don't know. By the time I 25 joined in April of 2006, a lot of those foundational

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1 decisions had been made. 1 small portion he's covering. It's not a big part of 2 BY MR. RAMSEY: 2 the topics, but I wanted to remind you that his Q Do you ever have any interaction with the 3 seven hours is almost over. 4 Android developer community? MR. RAMSEY: So I think we attempted to --5 MS. ANDERSON: Same objections. 5 Ms. Hurst attempted to address Topic 7, but the THE WITNESS: Very minimal. Actually, 6 6 witness was unable or unwilling to testify about 7 unfortunately, I -- I wish I could do more of that. 7 that. 8 My interactions have been mostly focused on the 8 MS. ANDERSON: Nobody touched on Topic 7. 9 industry side, so by "industry," I'm referring to 9 MS. HURST: Keep going. If you've got 10 manufacturers and operators. I haven't had too many 10 more on Topic 3, finish. 11 dealings with application developers, unfortunately. 11 MR. RAMSEY: Yeah, so I just --12 BY MR. RAMSEY: 12 BY MR. RAMSEY: Q Do you ever have conversations with the Q So when the -- the phone manufacturers 14 phone manufacturers about what developers want or 14 engage with you about application development, are 15 expect? 15 they concerned about the types of resources they 16 MS. ANDERSON: Beyond the scope, form. 16 have to invest in the process of learning how to 17 THE WITNESS: Not too much. I think the 17 develop? 18 conversations with manufacturers are mostly focused 18 MS. ANDERSON: Objection; form, beyond the 19 around the work that they're doing, which is 19 scope. 20 building hardware, so we talk a lot about, you know, 20 THE WITNESS: Well, I was trying to give 21 how good is your camera or how big is your battery 21 you two examples. The first one -- example I was 22 or, you know, what networks does your device work 22 giving you was about material design. In that case, 23 on. You know, topics like that is something we talk 23 actually they were excited because they -- they 24 a lot about, but we don't really talk about app 24 thought material design, first of all, was a very 25 developers too much. Sometimes we do, but more in 25 good design direction, and they also saw it as a way Page 354 Page 356 1 the context of us educating the manufacturers as an 1 for them to conserve their resources because they 2 app developer, also because a lot of manufacturers 2 wouldn't have to reinvent a new design language of 3 also have teams of app developers who build their 3 their own, so they saw it as a savings, and so 4 that's -- that's the material design example. 4 own set of applications. So sometimes we -- and when I say "we," I 5 The other example I would give is when we 5 6 mean, we have a developer relations team. They --6 come out with new form factors, for instance, when 7 you know, I encourage them to reach out and talk to 7 we launched Android Wear, it was important for us to 8 those manufacturer teams. 8 make sure that these phone manufacturers, their 9 BY MR. RAMSEY: 9 phone -- their apps that came with their phones also 10 properly supported Android Wear, so we did some Q What types of questions do the 11 manufacturers have about app development? 11 outreach to them on those topics. 12 MS. ANDERSON: Objection; beyond the 12 BY MR. RAMSEY: Q So did the application developers for the 13 scope, form. 14 phone manufacturers have to learn, for example, the 14 THE WITNESS: Well, one -- I'll give you 15 two examples. One example is when we released with 15 new APIs associated with something like Android Wear 16 Android Lollipop material design, we had a lot of 16 or materials; is that fair? 17 questions from manufacturers around the best way to MS. ANDERSON: Objection; form, beyond the 17 18 support material, how to -- how to support material 18 scope. 19 THE WITNESS: Any time there are new APIs 19 design, you know, best practices, design guidelines, 20 implementation guidelines, so on. So we've had many 20 that we add to Android, like the 3,000 new APIs we 21 conversations like that with manufacturers. 21 added to L, everyone, every app developer, whether MS. ANDERSON: Sorry, I don't want to 22 they're from phone manufacturers or a kid in Topica, 23 interrupt, Counsel, but I wanted to remind you that 23 Kansas, you know, they have to -- they have to learn

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25

24 it because it's new to them.

Q Does that take some time for application

24 the witness has seven hours almost over, and I don't

25 think you guys have touched on your Topic 7, the

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1 developers across the communities that you've just 1 is why the pie chart looks fragmented, and 2 talked about to learn APIs? 2 hence -- hence, the version fragmentation problem. 3 MS. ANDERSON: Objection; form, beyond the 3 Q So, in general, because of 4 scope. 4 fragmentation --5 5 THE WITNESS: I think it depends on the Is fragmentation across versions something 6 competence level of these developers and also the 6 that Google is trying to prevent going forward? 7 7 interest level that they have in adopting these new MS. ANDERSON: Objection; form, beyond the 8 APIs. So I don't know if there's a fixed number, 8 scope. 9 9 per se, but sure, it's just like learning anything THE WITNESS: I don't know if I would say 10 new. Everyone has their own pace and their own 10 "prevent," but it's certainly something about --11 desire level, level of desire, to, you know, decide 11 about the Android platform that we're not satisfied 12 how deep they want to go. 12 with. We think that something that we can 13 BY MR. RAMSEY: 13 certainly, as an industry, as a community, an O So other than --14 Android community, do better. I'm going to come back to fragmentation. 15 15 So we've talked to many manufacturers 16 Other than version fragmentation, does 16 about encouraging them to update early and often. 17 Google Play Services help mitigate any other type of 17 We've talked to operators about encouraging their 18 fragmentation within Android? 18 manufacturers to do the same. 19 19 MS. ANDERSON: Objection; form. So a lot of conversations on this topic, 20 THE WITNESS: Just to clarify, the version 20 but so far, unfortunately, not enough progress. 21 fragmentation, I didn't say Google Play Services 21 MR. RAMSEY: Okay. Just for the record, 22 would solve version fragmentation. I said it 22 I'm going to pass the mike and the questions back to 23 Ms. Hurst for a moment. 23 handles a small sliver of that problem, just for the 24 portions that are included in Google Play Services. 24 MS. HURST: Just state that I've got one 25 Really, in relative terms, it's a tiny, little 25 more document to mark on Topic 2; Exhibit 5016 is Page 358 Page 360 1 portion of that at the overall version fragmentation 1 GOOGLE-34-00089029 through -89050. Just a second. 2 problem. 2 Let me just find if we have a not two-sided version 3 But I can't think of any other form of 3 of this. Make it easier for the court reporter, I 4 fragmentation that Google Play Services would 4 think. 5 actually help with. 5 (Deposition Exhibit 5016 marked 6 BY MR. RAMSEY: 6 for identification.) Q What do you mean by the "overall version 7 FURTHER EXAMINATION 8 fragmentation problem"? 8 BY MS. HURST: A Well, this is something that's documented 9 Q Mr. Lockheimer, on -- you're welcome to 10 and talked about a lot. We have -- another way to 10 review as much of this document as you'd like. 11 phrase it is the -- the device upgrade problem. In 11 On the page that has the Bates number 12 other words, many people complain -- press and 12 ending -42042 --13 consumers complain that their devices don't get 13 A What's the Bates number? 14 updated to the latest version of operating Q There's a legend along the side there, and 15 system -- to the latest version of Android, and so, 15 you'll see at the very end of that footer, there's a 16 in fact, we have a pie chart that we update, I 16 series of numbers. 17 think, monthly on our developer site that shows the A Okay. What was the number that you said? 17 18 current mix of Android devices out in the wild and 18 Q -42, please. 19 sort of a breakdown of what percentage of devices 19 A Ending in -42, okay. This one? 20 are on a particular operating system. 20 Q That's right. And -- and certainly from a Android 21 So there's -- you see there's like a --22 platform provider's perspective, we want that pie 22 kind of a four-point part chart, right? 23 chart to be as -- as overwhelmingly on the latest 23 A Okay. 24 version of the OS as possible, but unfortunately 24 Q And it describes the Android strategy over 25 many devices are not updated early or often, which 25 a period of time, correct?

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1 MS. ANDERSON: Objection; form. So this strategy -- Android strategy slide THE WITNESS: Well, first of all, these 2 also covers the period of time from 2013 and beyond, 2 3 look like meeting notes or a review -- quarterly 3 right? 4 review presentation from July of 2010. On the very 4 MS. ANDERSON: Objection; form. 5 first page, the attendees are listed. I am not one 5 THE WITNESS: Well, there's a box on the 6 of those attendees. So, first of all, I don't 6 far right that says "2013+." 7 recognize these slides, and -- and the notes show 7 BY MS. HURST: 8 that I was not present or presenting even. So I'm 8 Q Right. 9 seeing these for the first time. 9 And that's where we are today, right? 10 Your question was? 10 MS. ANDERSON: Objection; form. 11 BY MS. HURST: THE WITNESS: We are five years after this 11 Q I'm going to move to strike all of that as 12 document was presented. Actually, more than five 13 nonresponsive, because my question was: This page 13 years. Almost five and a half years from when this 14 of Exhibit 5016 ending in -042 describes the Android 14 document was presented, yes. MS. HURST: Move to strike as 15 strategy over a period of time, true? 15 MS. ANDERSON: Objection; form. 16 16 nonresponsive. 17 THE WITNESS: It seems to show -- well, 17 MS. ANDERSON: Opposed. 18 based on the date of these slides, 2010 -- I've 18 BY MS. HURST: 19 never seen these slides before, but based on the Q Does the Phase 4 strategy presented on 20 Exhibit 5016, page ending -482, called "Change the 20 date on these slides from Q2 of 2010, it seems to 21 show a little bit of history and a little bit of 21 Rules/Scale," indicate that that's a strategy for 22 sort of forward-looking phases. 22 the time period beginning and after 2013? 23 MS. ANDERSON: Objection; form. 23 BY MS. HURST: 24 Q Phases of strategy, Android strategy, 24 THE WITNESS: It says -- given that the 25 checkmark and the header says "Focused on Phase 2," 25 right? Page 362 A Well, the title of this slide says 1 and the fact that the title of the presentation says 2 "Android Strategy Focused on Phase 2, Moving to 2 "Q2, 2010," I'm assuming this slide was written in 3 2010. So the fourth box there that says "2013+" is 3 Phase 3." 4 Q Right. 4 talking about something that's three years, four 5 And the slide has four phases that it 5 years in the future from when this slide was 6 written, yes. 7 A Well, it shows four boxes, yes, with four 7 MS. ANDERSON: What's the time on the 8 different sort of time periods. 8 record? Q And the title of this slide calls it THE VIDEOGRAPHER: Time on the record is 10 "Phases," right? 10 seven hours and five minutes. A It says "Android Strategy Focused on 11 BY MS. HURST: 12 Phase 2, Moving to Phase 3." 12 Q So this is a strategy --13 Q Right. 13 MS. ANDERSON: Counsel, we're past the 14 And that's where you were in the strategy 14 seven hours. I gave you five more minutes and we're 15 done with this witness' seven hours. It's been a 15 in 2010, right? MS. ANDERSON: Objection; form. 16 16 long day for him. 17 THE WITNESS: I don't know if they were --17 MS. HURST: The witness -- you indicated 18 again, I've never seen these slides before, so I 18 earlier today the witness did not need to leave 19 don't know what the narrative was when they were 19 until 6:30. 20 talking about this. So I can only tell you from 20 MS. ANDERSON: Correct. 21 what I can read on the slides, it says "Focused on 21 MS. HURST: It is not yet 6:30. There is 22 Phase 2," so it sounds like they were focused on 22 no seven-hour limit on a pure 30(b)(6) witness. 23 Phase 2. 23 We're not deposing this witness in his personal 24 BY MS. HURST: 24 capacity, as you pointed out this morning. The 25 Q All right. 25 deposition of Google is not limited to seven hours. Page 363 Page 365

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1 MS. ANDERSON: Well, I don't agree with	1 off the record. So the Defendant has unilaterally
2 you, and I've already discussed this with you in the	2 terminated the deposition by walking out of the room
3 past.	3 before it's completed.
4 Thank you very much.	4 THE VIDEOGRAPHER: This is the end of
5 MS. HURST: That was a different issue.	5 today's deposition of Mr. Hiroshi Lockheimer. We
6 MS. ANDERSON: Thank you.	6 are off the record at 6:15 p.m. The total number of
7 MS. HURST: We have not discussed I	7 media used was four and will be retained by
8 have more questions for this witness about this	8 Veritext.
9 document, and I intend to continue until 6:30, which	9 Thank you.
10 is when you told us the witness would leave.	10 (Time noted: 6:15 p.m.)
11 MS. ANDERSON: Well, we're done for the	11
12 day. The witness is only here for seven hours, and	12
13 we pushed really hard to make sure you got all your	13
14 seven hours and a few minutes more.	14
So thank you.	15
MS. HURST: Are you refusing to answer	16
17 questions until 6:30 this evening with the	17
18 understanding that we will move to compel you to	18
19 return and finish this deposition?	19
MS. ANDERSON: So we're done for the day.	20
21 And thank you very much. You can	21
MS. HURST: Are you refusing to answer	22
23 additional questions, Mr. Lockheimer?	23
MS. ANDERSON: You don't need to harass	24
25 the witness any longer.	25
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1 MS. HURST: I'm not harassing the witness.	1
2 MS. ANDERSON: I was very clear to you	2
3 that we were going to be here for seven hours, and	3
4 we pushed to make sure you got every minute of that	4
5 in today.	5
6 MS. HURST: That is not true. You said	6
7 the witness was available until 6:30.	7
8 MS. ANDERSON: Yes, but that doesn't	8
9 change the fact that you have seven hours with this	9 I, HIROSHI LOCKHEIMER, do hereby declare under penalty
10 witness.	10 of perjury that I have read the foregoing transcript;
11 MS. HURST: There is no seven-hour rule in	11 that I have made any corrections as appear noted, in
12 30(b)(6).	12 ink, initialed by me; that my testimony as contained
13 MS. ANDERSON: I suspect that you may be	13 herein, as corrected, is true and correct.  14 EXECUTED this day of , 2015, at
14 mistaken about that, but since I invited you to meet	14 EXECUTED thisday of, 2015, at 15
15 and confer with me about this last time, and you did	16 (city) (State)
16 not, perhaps you	17 (State)
MS. HURST: What are you talking about? I	18
18 didn't confer with you about it last time? Of	19
19 course, I did.	HIROSHI LOCKHEIMER
20 MS. ANDERSON: No, actually, you did not.	20
21 MS. HURST: In fact, I objected last time	21
22 and indicated we would move to compel then as well.	22
	I .
23 MS. ANDERSON: Thank you, Counsel. We can	23
23 MS. ANDERSON: Thank you, Counsel. We can 24 head out.	23 24
•	

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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I, the undersigned, a Certified Shorthand Reporter of the State of California, do hereby certify:  That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; that the foregoing transcript is a true record of the testimony given.  Further, that the foregoing pertains to the original transcript of a deposition in a Federal Case, before completion of the proceedings, a review of the transcript [X] was [] was not requested.  I further certify I am neither financially interested in the action nor a relative or employee of any attorney or any party to this action.  IN WITNESS WHEREOF, I have this date subscribed my name.  Dated: 12/10/2015  KELLI COMBS CSR No. 7705	
25	CSR No. 7/05 Page 370	

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# Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF SEPTEMBER 1,

2014. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.